



Full wwPDB EM Validation Report ⓘ

Apr 28, 2024 – 03:37 am BST

PDB ID : 4V8V
EMDB ID : EMD-2358
Title : Structure and conformational variability of the Mycobacterium tuberculosis fatty acid synthase multienzyme complex
Authors : Ciccarelli, L.; Connell, S.R.; Enderle, M.; Mills, D.J.; Vonck, J.; Gringer, M.
Deposited on : 2013-04-18
Resolution : 20.00 Å(reported)
Based on initial model : 4B3Y

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev92
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

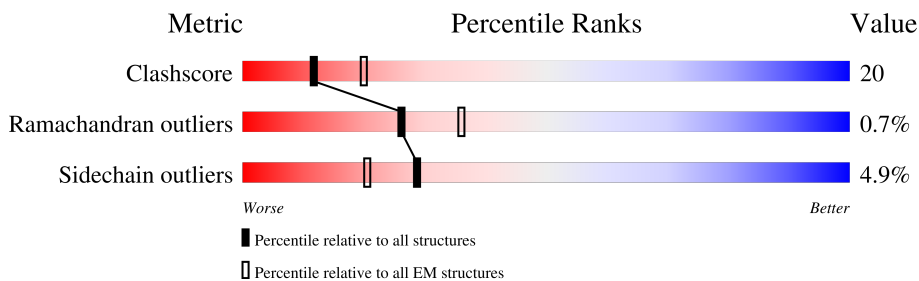
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 20.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	3089	
1	B	3089	
1	C	3089	
1	D	3089	
1	E	3089	
1	F	3089	

2 Entry composition i

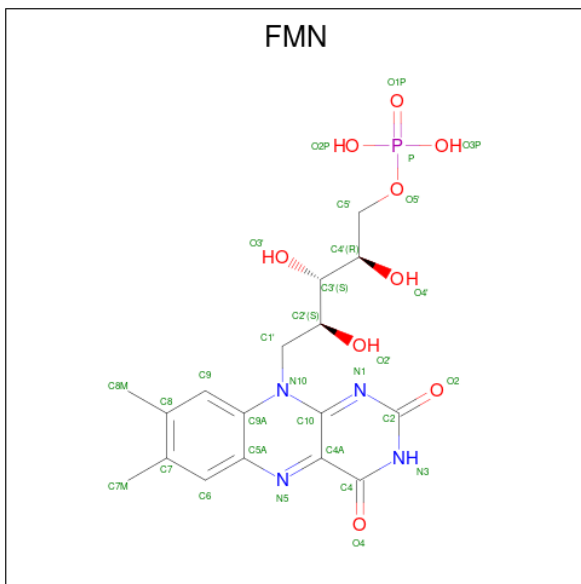
There are 2 unique types of molecules in this entry. The entry contains 125856 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called TYPE-I FATTY ACID SYNTHASE.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	2822	Total 20945	C 13219	N 3662	O 3998	S 66	0	0
1	B	2822	Total 20945	C 13219	N 3662	O 3998	S 66	0	0
1	C	2822	Total 20945	C 13219	N 3662	O 3998	S 66	0	0
1	D	2822	Total 20945	C 13219	N 3662	O 3998	S 66	0	0
1	E	2822	Total 20945	C 13219	N 3662	O 3998	S 66	0	0
1	F	2822	Total 20945	C 13219	N 3662	O 3998	S 66	0	0

- Molecule 2 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C₁₇H₂₁N₄O₉P).

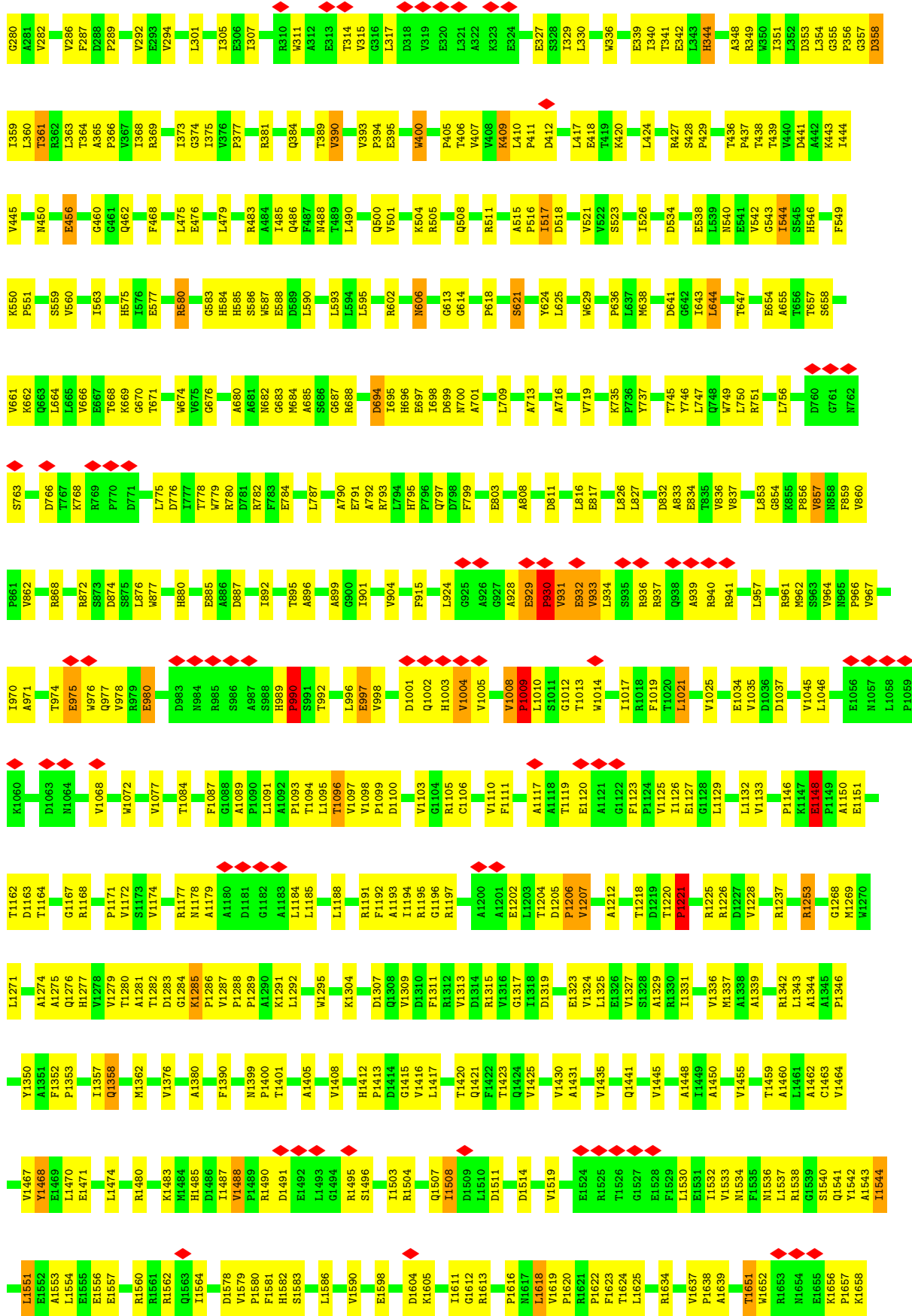


Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
2	A	1	Total 31	C 17	N 4	O 9	P 1	0

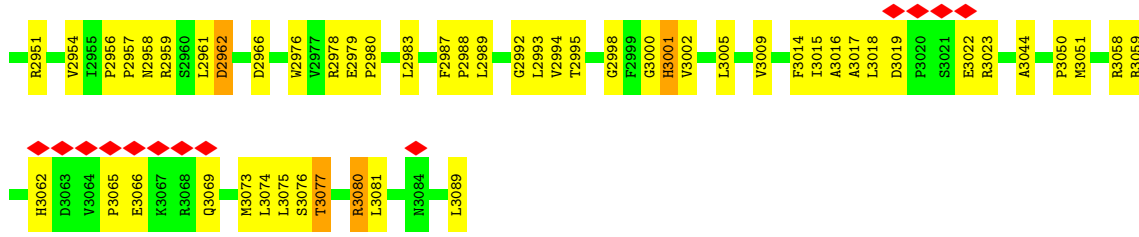
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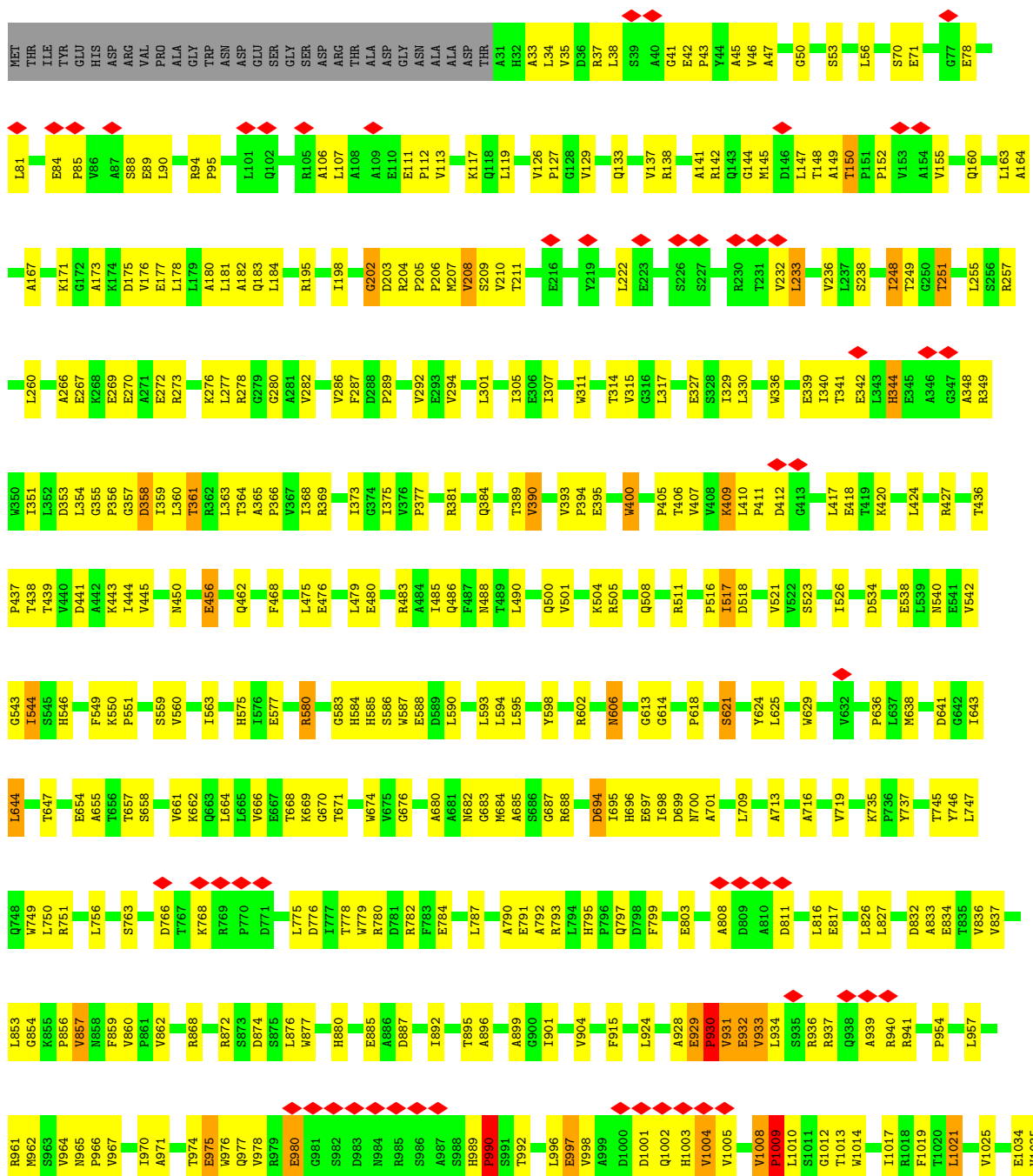
Mol	Chain	Residues	Atoms					AltConf
2	B	1	Total 31	C 17	N 4	O 9	P 1	0
2	C	1	Total 31	C 17	N 4	O 9	P 1	0
2	D	1	Total 31	C 17	N 4	O 9	P 1	0
2	E	1	Total 31	C 17	N 4	O 9	P 1	0
2	F	1	Total 31	C 17	N 4	O 9	P 1	0



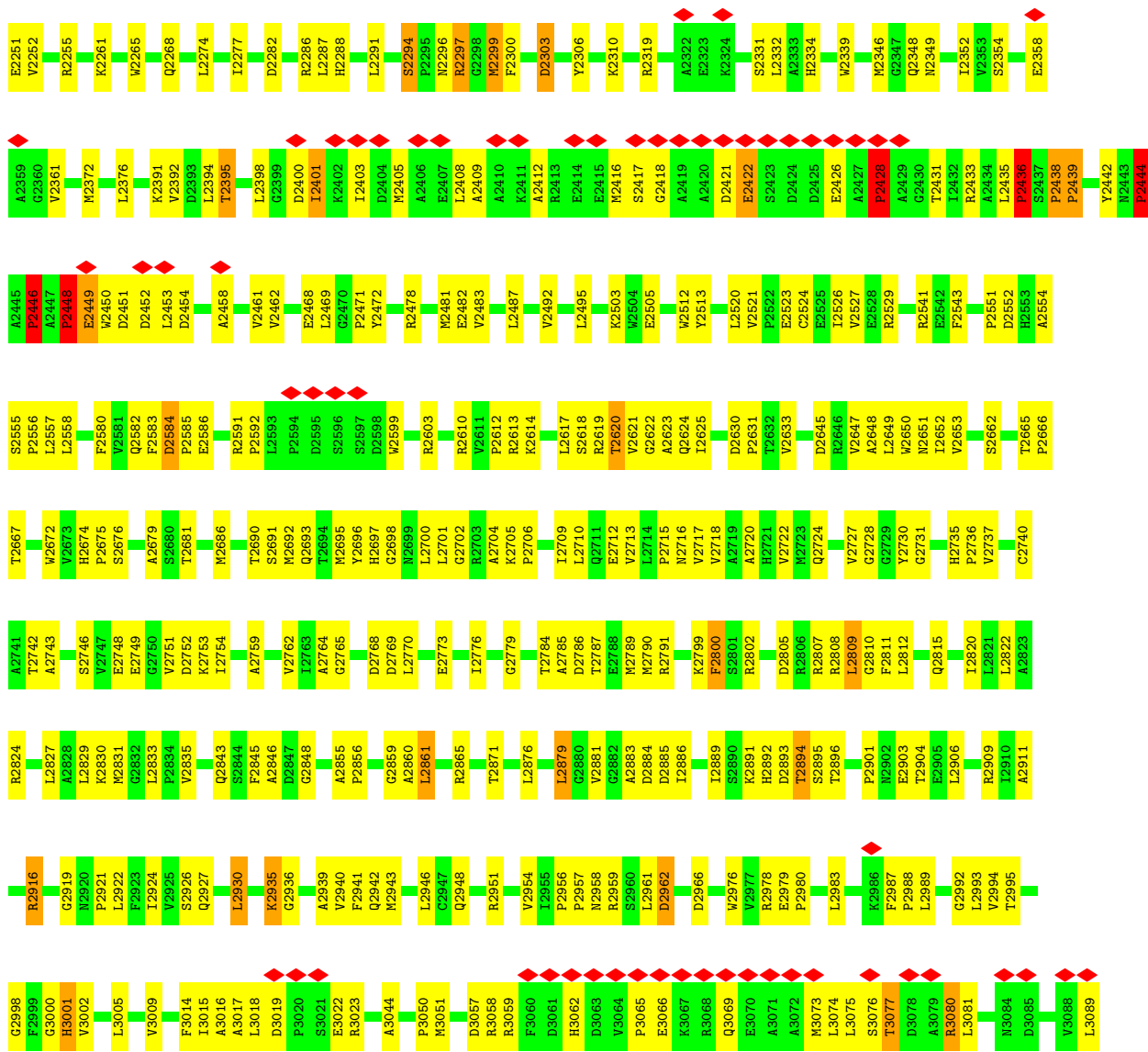
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L1741	D1745	THR	ASP	PRO	GLU	PRO	GLU	PRO	GLN	ASP	ALA	THR	ALA	ASP	ALA	PRO	GLU	ALA	ALA	PRO	ALA	ALA	ALA	ALA	PRO	PRO	VAL	VAL	VAL	ALA	ALA	PRO	ALA	ALA	PRO	GLY	GLY	PRO	ARG	PRO	ASP	ASP	ALA	ALA	ASP	ALA	ALA	THR	VAL	VAL	LEU		
ILE	ALA	LEU	SER	ALA	LYS	ARG	VAL	ILE	GLN	ASP	PRO	THR	ILE	ILE	GLY	SER	THR	ALA	ALA	THR	THR	ALA	ALA	LEU	LEU	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	VAL			
THR	LYS	LEU	ALA	ARG	GLY	THR	TYR	PRO	PHE	GLY	PRO	THR	ILE	ALA	ASN	ASP	LEU	ARG	ALA	THR	THR	ALA	ALA	LEU	ARG	PRO	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	VAL			
GLY	THR	ARG	GLU	GLY	SER	VAL	ARG	GLY	GLY	GLY	VAL	HIS	ALA	GLY	ALA	ALA	ALA	ALA	ALA	ALA	ASP	VAL	GLY	ASP	ASP	LYS	VAL	VAL	VAL	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ASP				
S1983	A1984	A1985	L1986	R1987	E1988	F1989	K1992	P1996	L2000	R2005	L2008	N2009	Q2010	L2011	G2012	L2013	S2014	D2015	V2016	T2017	T2018	T2019	P2020	E2021	A2022	A2023	T2024	E2027	V2032	T2047	A2053	V2054	V2055	F2056	D2057	D2058	R2059	W2060	L2067	L2070	E2074	D2079	A2080	Q2081	W2082	E2083							
Q2084	L2085	S2086	R2088	F2089	E2090	G2091	T2092	H2094	G2095	P1996	V2095	W2096	A2097	T2098	Q2099	A2100	N2101	W2102	W2103	Q2104	G2105	L2108	A2109	A2110	G2111	R2112	W2113	W2114	H2115	L2118	F2119	L2122	A2123	A2124	G2125	A2126	E2127	W2128	P2129	V2134	E2137	V2140	V2141	T2163	V2164	L2165	A2166	T2167	R2170	D2173			
D2174	R2175	L2176	K2180	R2188	F2189	T2192	H2193	W2194	V2195	V2196	P2197	D2205	L2209	V2210	W2211	W2212	G2213	T2215	E2216	K2229	P2234	T2235	L2236	L2237	F2238	R2244	V2245	A2246	G2247	D2248	M2249	S2250	E2251	V2252	R2255	K2261	W2265	Q2268	L2274	I2277	D2282												
R2286	L2287	H2288	L2291	S2294	P2295	M2296	R2297	G2298	M2299	F2300	D2303	Y2306	K2310	R2319	S2331	L2332	A2333	H2334	W2339	M2346	G2347	Q2348	M2349	T2352	V2353	S2354	A2355	V2356	E2357	E2358	A2359	G2360	V2361	M2372	L2376	K2391	V2392	D2393	L2394	T2395	L2398	G2399	D2400	I2401	K2402								
I2403	D2404	M2405	A2406	L2408	A2409	A2412	M2416	S2417	G2418	A2419	A2420	D2421	E2422	S2423	D2424	D2425	A2426	A2427	P2428	T2431	L2432	R2433	A2434	L2435	P2436	S2437	P2438	P2439	Y2442	N2443	P2444	A2445	P2446	A2447	E2448	E2449	W2450	D2451	D2452	L2453	D2454	A2458	V2461	V2462	E2468	L2469	G2470	P2471	Y2472	R2478			
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L2700	L2701	G2702	R2703	A2704	K2705	P2706	T2709	N2710	L2711	Q2711	E2712	W2713	L2714	P2715	N2716	V2717	W2718	A2719	A2720	H2721	M2722	M2723	Q2724	V2727	G2728	R2729	Y2730	G2731	H2735	P2736	V2737	C2740	A2741	T2742	A2743	S2746	L2747	K2748	E2749	G2750	V2751	D2752	K2753	L2754	A2759	V2762	L2763	F2764	A2764	G2765	D2768	D2769	L2770
E2773	L2776	G2779	T2784	A2785	D2786	T2787	E2788	M2789	M2790	R2791	K2799	F2800	S2801	R2802	D2805	R2806	R2807	R2808	L2809	G2810	F2811	L2812	Q2815	T2820	L2821	L2822	R2823	R2824	L2827	A2828	L2829	K2830	M2831	G2832	L2833	P2834	V2835	L2836	Q2843	S2844	F2845	A2846	G2847	F2848	G2848	M2849	G2859	L2860	L2861	Q2861	Q2848		
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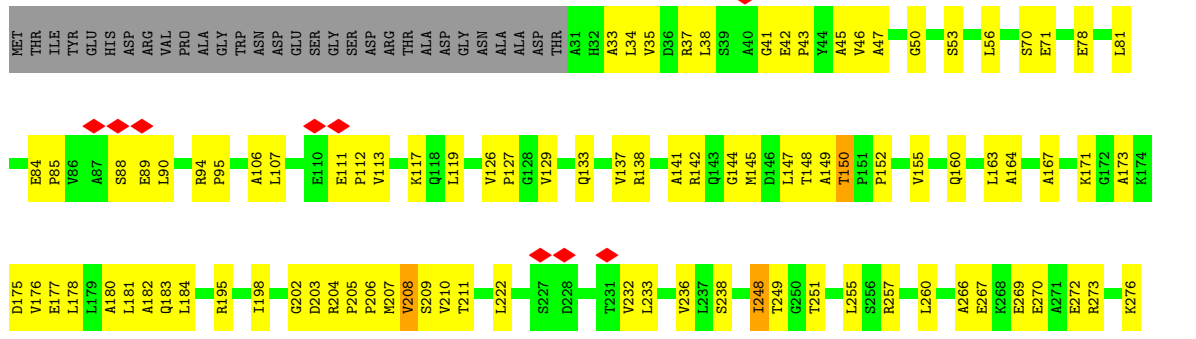
• Molecule 1: TYPE-I FATTY ACID SYNTHASE

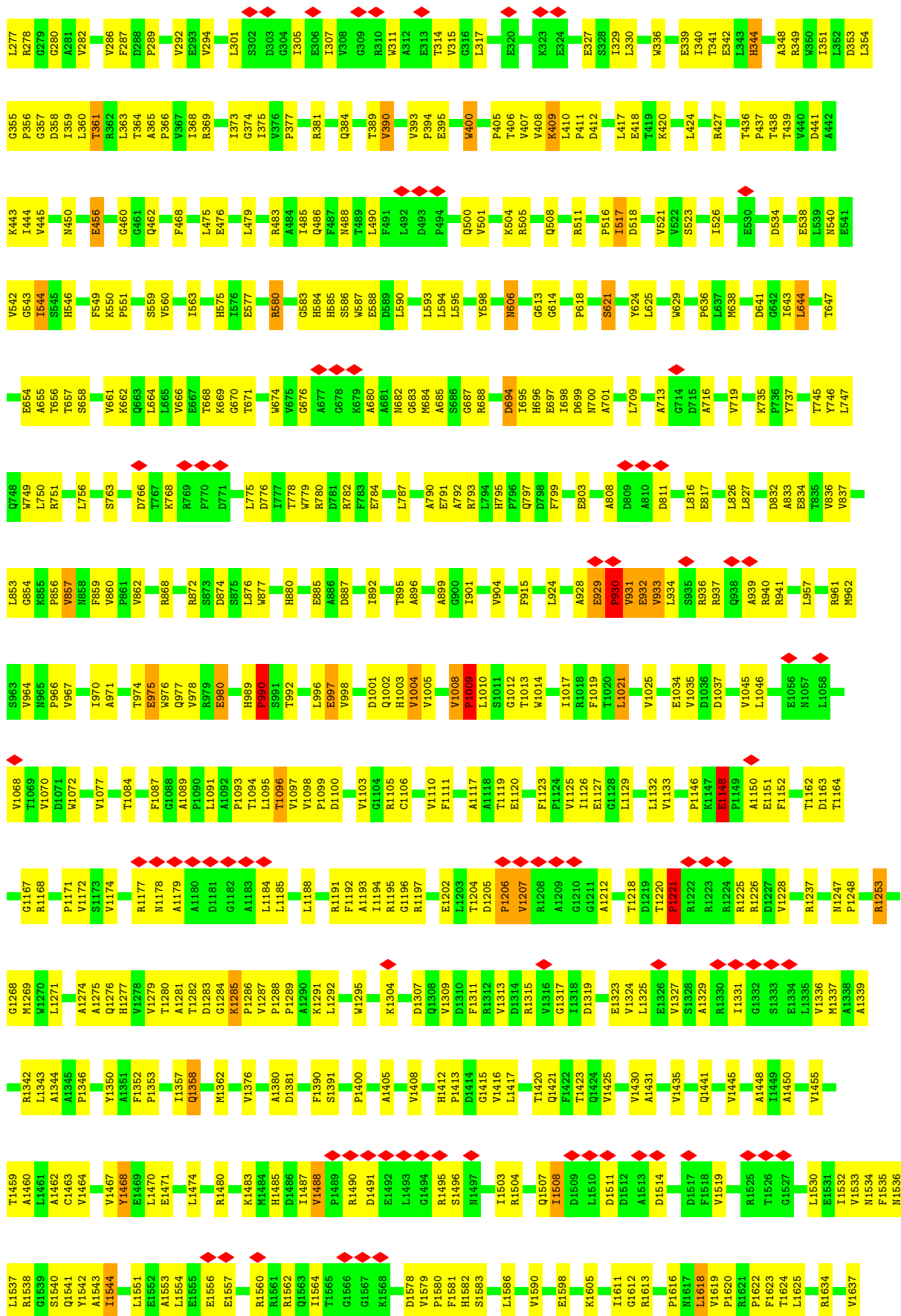


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E2137	L2070	SER	L1722	V1637	A1329	R1225	L1129	V1045
V2140	E2074	VAL	P1722	A1638	R1330	R1226	V1133	L1046
V2141	L2074	SER	E1723	A1639	I1331	D1227	L1133	L1046
T2163	I2078	PRO	Y1724	M1636	G1332	V1228	P1133	E1053
V2164	D2079	GLY	S1725	A1647	S1333	R1237	P1146	E1056
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T2167	Q2082	VAL	N1733	A1650	A1338	P1248	P1149	L11058
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D2173	Q2084	GLY	E1735	R1653	R1342	G1268	E1151	K1060
R2174	L2085	THR	R1736	M1654	L1343	M1269	M1061	V1061
R2175	Q2087	VAL	D1737	N1654	L1344	G1276	T1162	V1062
F2088	R2088	ALA	L1741	E1655	A1345	M1270	A1163	D1063
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T2092	F1989	ARG	ASP	K1658	A1351	A1275	R1168	V1068
G2093	H2094	GLY	PRO	E1659	F1352	A1276	T1171	T1069
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A2097	P1996	ARG	GLU	K1662	I1357	V1279	V1174	M1072
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V2114	T2018	VAL	ALA	L1686	D1491	L1292	L1188	T1096
H2115	T2019	GLY	ALA	F1687	E1492	L1304	R1191	V1097
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A2126	T2024	VAL	ALA	L1699	R1504	F1311	G1197	G1104
E2127	V2032	VAL	ALA	R1699	P1505	R1312	R1200	R1005
N2128	V2032	VAL	ALA	V1700	S1506	V1313	A1200	C1106
R2244	G2247	VAL	ALA	V1701	Q1507	D1314	A1201	E1202
V2245	E2127	VAL	ALA	E1702	L1618	R1315	E1202	V1110
A2246	F2129	VAL	ALA	I1703	V1619	V1316	L1203	F1111
G2247	G2130	VAL	ALA	G1704	P1622	G1317	T1204	A1117
D2248	F2057	VAL	ALA	V1705	F1623	I1318	D1205	A1118
W2249	D2057	VAL	ALA	K1706	T1624	D1319	P1206	T1119
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F2238	R2058	THR	ALA	A1711	E1528	L1325	T1218	F1123
L2236	F2056	THR	ALA	V1712	F1529	E1326	I1218	V1125
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F2238	R2058	THR	ALA	V1712				
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V2245	F2056	THR	ALA	V1712				
A2246	D2057	THR	ALA	A1712				
G2247	K2131	THR	ALA	V1712				
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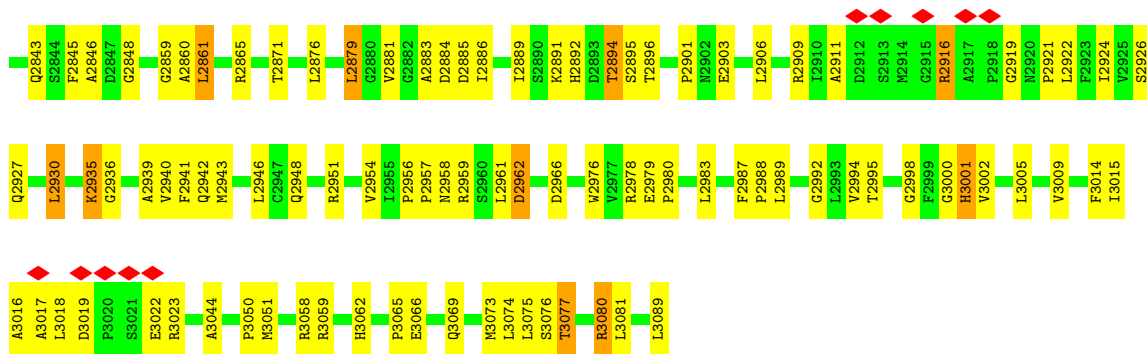


● Molecule 1: TYPE-I FATTY ACID SYNTHASE

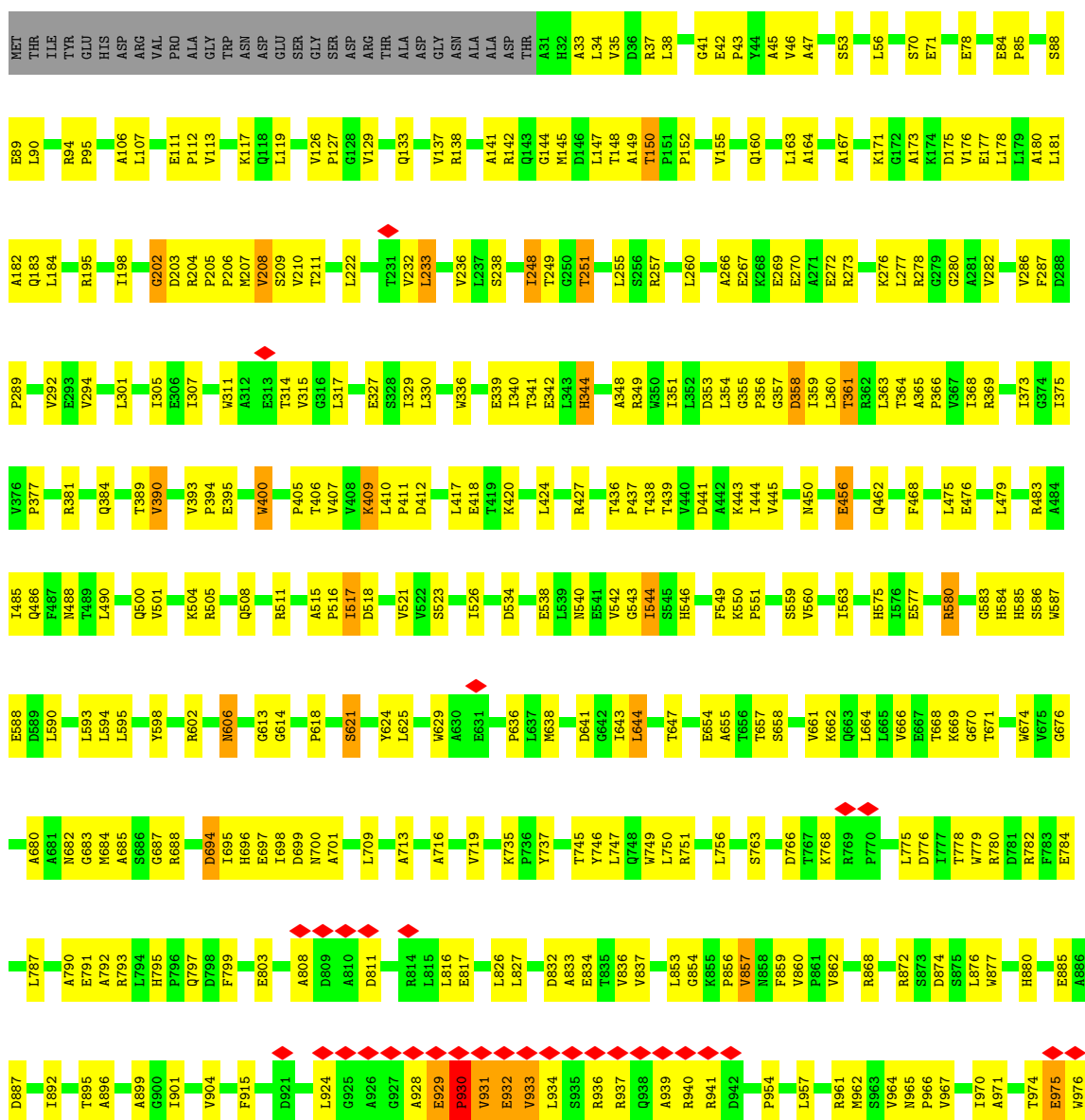




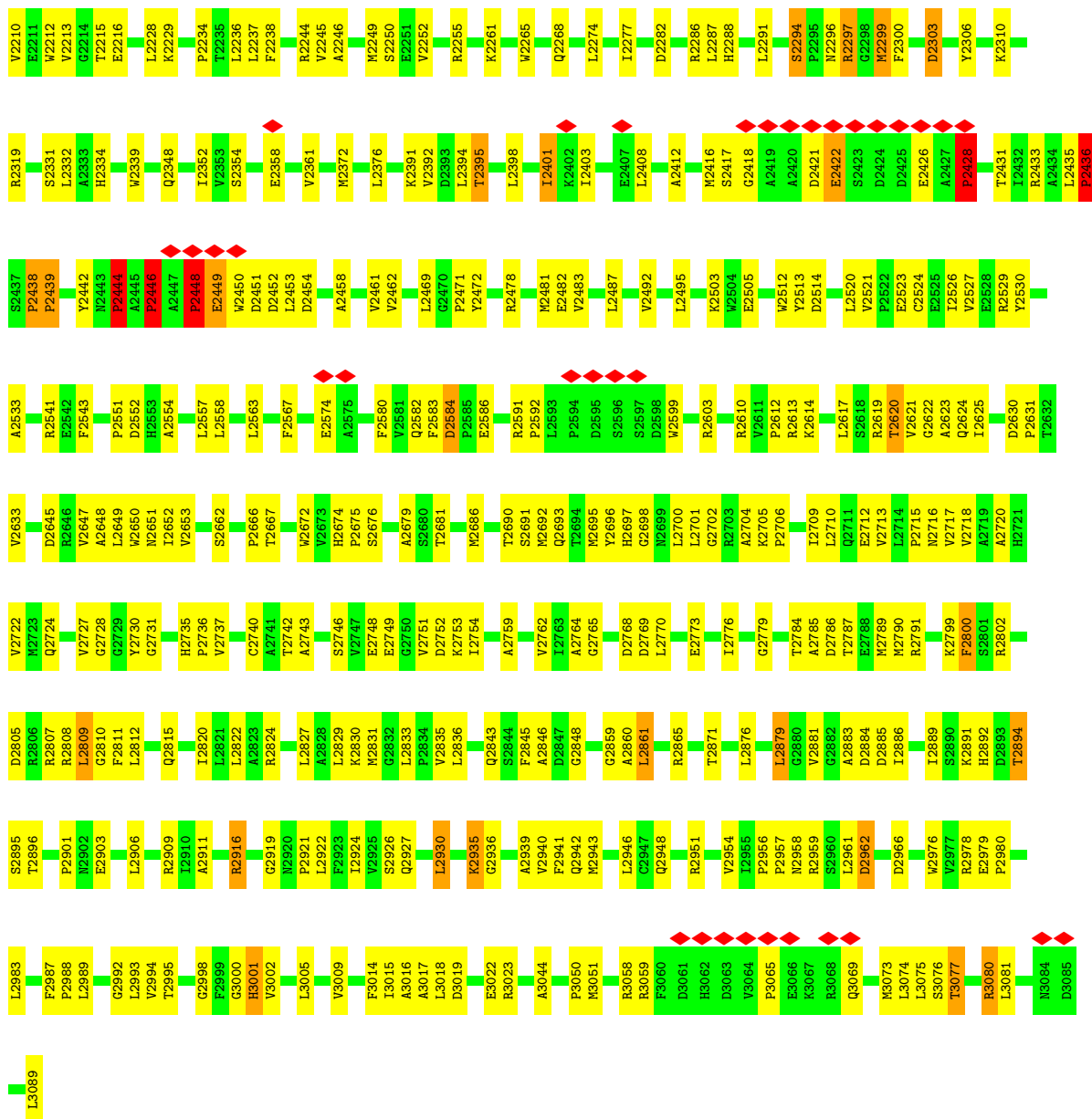
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A2759	P2471	I2403	I2165	Q2081	GLY	ALA	ASP	PHE	V1731	V1731
V2762	Y2472	A2404	A2166	W2082	GLY	LYS	LEU	ASP	L1732	L1732
L2763	R2478	M2405	T2167	E2083	ALA	HIS	VAL	ALA	N1733	N1733
L2764	M2481	A2406	R2170	Q2084	SER	THR	LEU	ASP	E1735	E1735
G2765	M2482	E2407	D2173	L2085	GLY	VAL	LEU	ALA	M1652	M1652
D2768	E2482	L2408	R2286	L2086	GLY	GLU	LEU	ALA	K1656	K1656
D2769	V2483	A2409	L2287	S2086	VAL	PHE	THR	VAL	P1657	P1657
L2770	L2487	R2412	H2288	R2088	VAL	ALA	VAL	ALA	K1658	K1658
E2773	V2492	A2413	L2291	F2089	ASP	LEU	VAL	LEU	E1659	E1659
L2776	L2495	R2413	S2294	G2091	S1983	THR	THR	ILE	L1660	L1660
K2703	M2496	E2414	P2295	G2093	A1984	ARG	LEU	ALA	C1661	C1661
K2705	M2296	E2415	M2296	H2094	A1985	GLU	LEU	SER	R1662	R1662
P2706	R2297	M2416	F2189	V2095	L1986	GLY	ARG	ALA	K1663	K1663
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L2714	L2520	D2421	P2197	A2100	L2000	ASP	PRO	ILE	F1673	F1673
L2715	V2521	E2422	A2198	W2102	L2000	LEU	VAL	GLU	A1674	A1674
P2715	E2522	S2423	D2205	Q2103	A2004	GLY	LEU	ALA	W1679	W1679
M2716	E2523	D2424	D2209	W2106	R2005	GLY	SER	ASP	D1684	D1684
L2717	E2524	E2426	L2209	A2106	L2008	HIS	ALA	SER	L1685	L1685
L2718	E2525	A2427	V2210	R2107	L2008	ALA	ILE	THR	I1686	I1686
L2719	E2526	L2427	E2211	A2108	N2009	GLY	ASN	GLU	F1687	F1687
L2720	V2527	P2428	W2212	A2109	Q2010	ALA	ASP	SER	E1690	E1690
L2721	E2528	R2429	G2213	A2110	L2011	LEU	GLN	ILE	G1694	G1694
L2722	E2529	T2431	G2214	G2111	L2011	ALA	LEU	THR	L1695	L1695
Q2724	Y2530	R2432	W2339	R2112	G2012	THR	ARG	GLU	R1699	R1699
V2727	E2541	A2434	Q2348	R2113	L2013	ALA	VAL	ALA	V1701	V1701
G2728	R2542	L2435	I2352	R2114	L2014	ALA	VAL	ALA	E1702	E1702
G2729	F2543	P2436	S2354	W2113	S2014	ASP	VAL	ALA	I1703	I1703
L2730	P2551	S2437	E2358	H2115	V2015	VAL	ASP	PRO	V1705	V1705
L2731	D2552	P2439	E2359	L2118	V2016	ASP	VAL	PRO	S1707	S1707
P2736	R2553	Y2442	A2359	F2119	V2017	VAL	VAL	ALA	T1710	T1710
L2737	A2554	W2443	G2360	T2122	P2020	LYS	LYS	ALA	V1711	V1711
L2738	S2555	R2444	G2361	A2123	V2032	THR	ARG	ALA	A1712	A1712
L2739	P2556	A2445	V2361	A2124	T2047	GLY	TYR	ALA	L1714	L1714
L2740	L2557	P2446	M2372	G2125	A2053	ASP	TRP	ALA	L1719	L1719
L2741	L2558	A2447	L2376	A2126	A2054	VAL	ILE	ALA	P1722	P1722
L2742	L2563	P2448	L2376	E2127	V2054	VAL	THR	GLY	E1723	E1723
L2743	L2563	E2449	K2391	R2128	V2055	ALA	ARG	GLU	A1724	A1724
S2746	P2567	W2450	V2392	G2130	F2056	ALA	VAL	ALA	S1725	S1725
L2747	F2567	D2451	W2392	R2131	D2057	ARG	THR	ALA		
L2748	E2574	D2452	D2393	G2132	R2058	GLY	LYS	ALA		
E2749	E2574	L2453	L2394	R2133	R2059	THR	THR	ALA		
G2750	F2580	D2454	T2395	R2134	W2060	GLY	TRP	ALA		
G2751	F2581	W2455	L2398	Y2134	L2067	ILE	GLU	ALA		
G2752	Q2582	D2456	G2399	E2137	L2070	ASP	LEU	GLY		
		P2457	D2400	V2140	E2074	GLY	PRO	ASP		
		A2458	V2141	V2141		ALA	ALA	ALA		



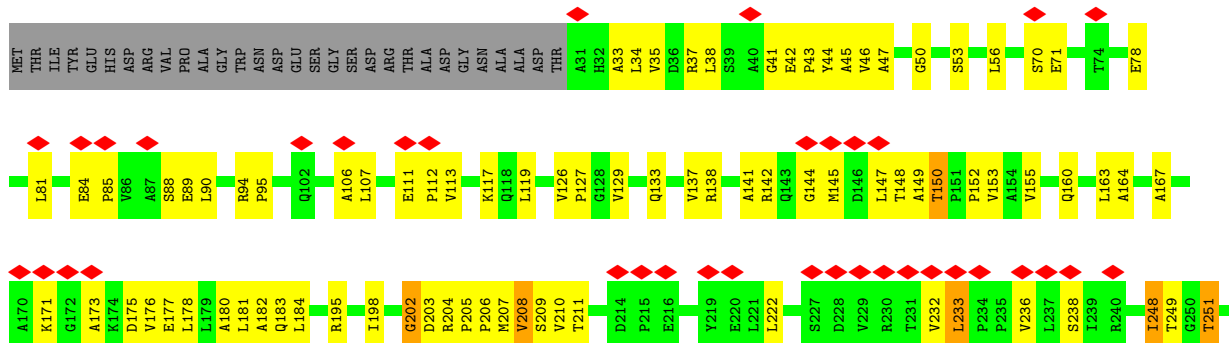
● Molecule 1: TYPE-I FATTY ACID SYNTHASE

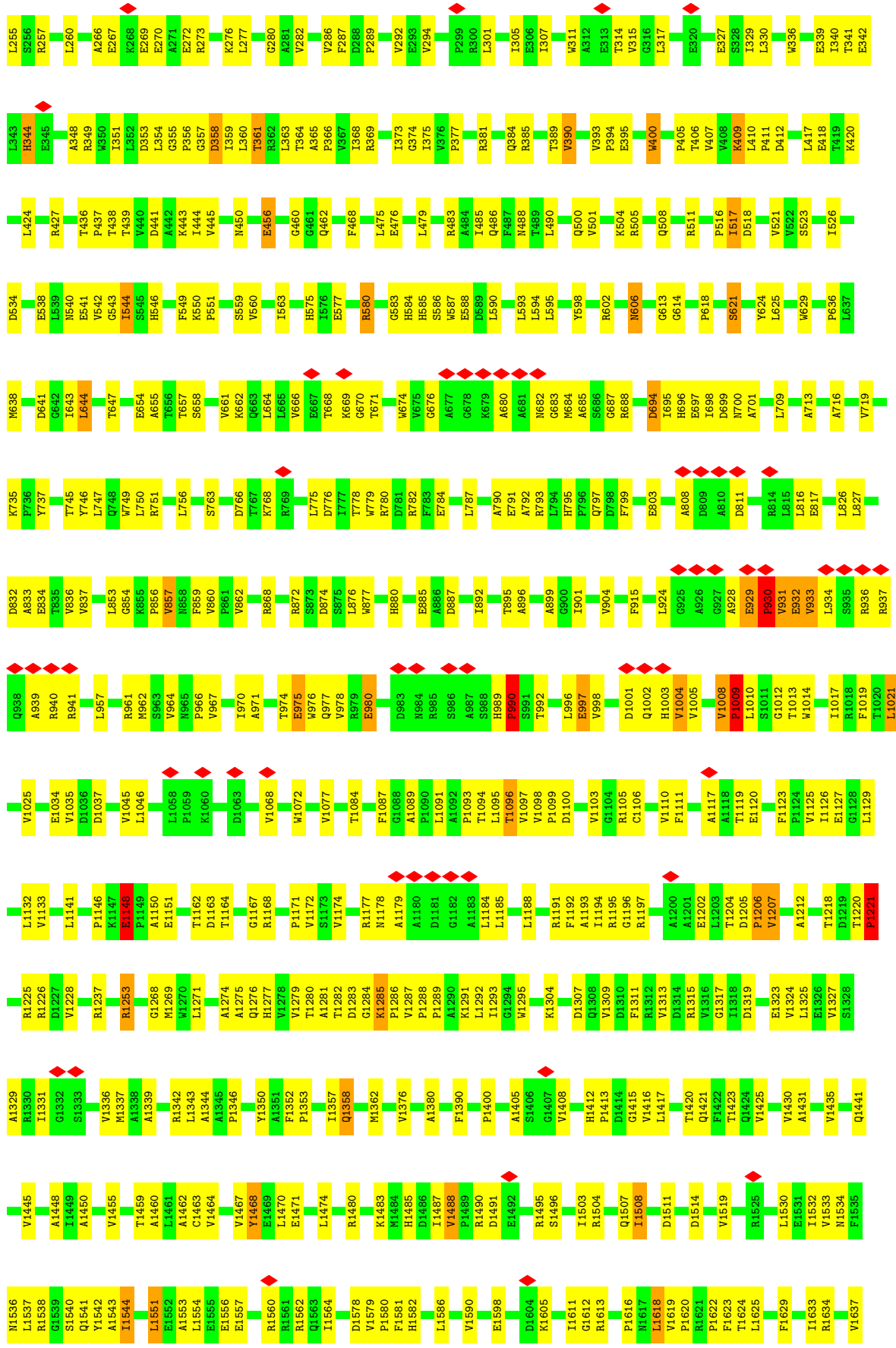


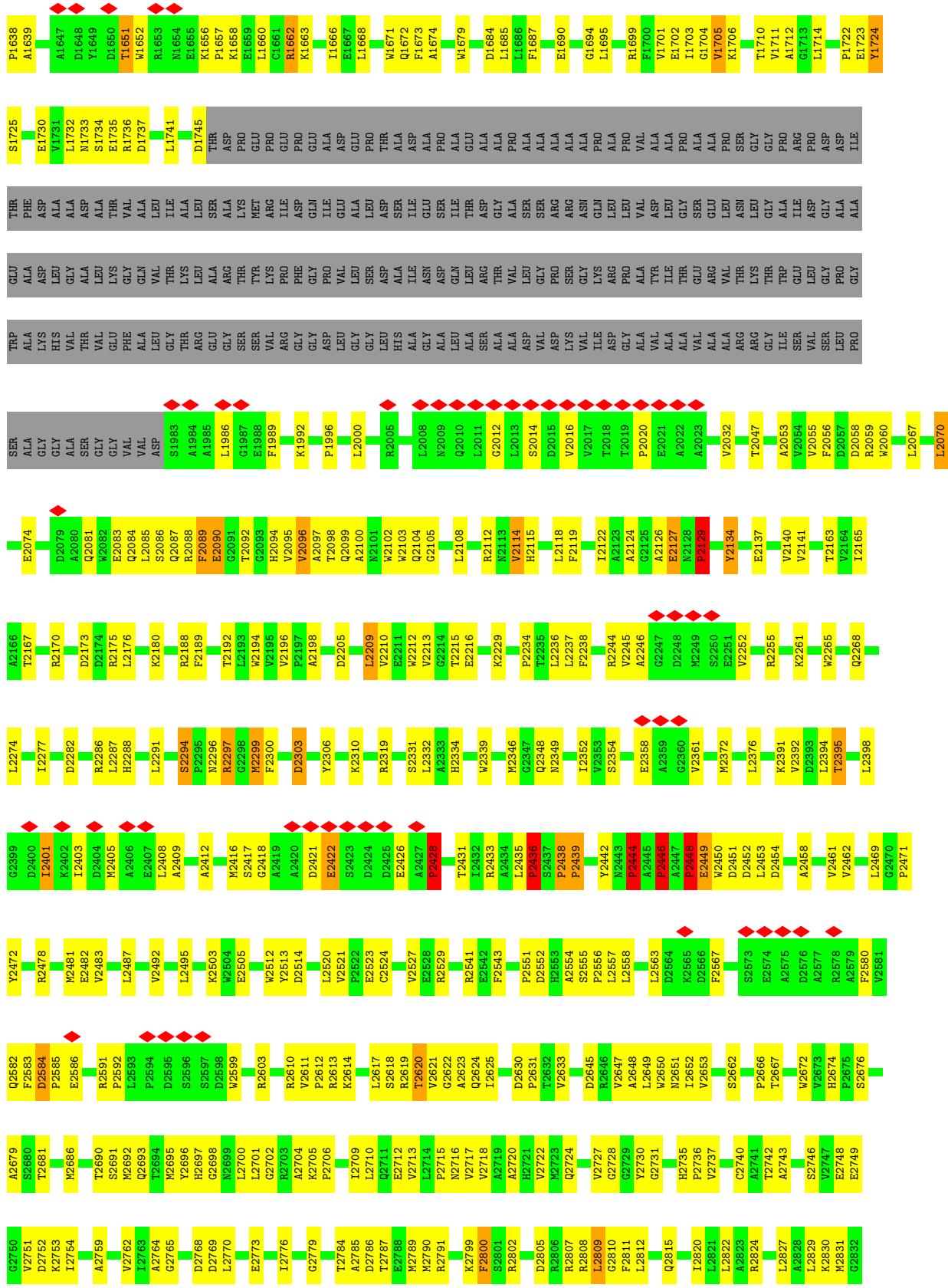
Q2104	L2008	GLY	P1400	P1289	E1489	Q1563	W1671	GLU	ALA	LEU	GLY	L2008
G2105	M2009	LEU	A1405	A1290	R1490	I1564	Q1672	PRO	LEU	SER	GLY	M2009
L2108	Q2010	HIS	V1408	R1496	D1491	V1574	F1673	THR	ASP	ASP	HIS	Q2010
A2109	L2011	ALA	H1412	S1496	L1500	D1578	A1674	ASP	ILE	ASN	ALA	L2011
A2110	G2012	GLY	P1413	L1504	V1579	V1578	W1679	GLU	GLY	ASP	GLY	G2012
G2111	L2013	LEU	D1414	R1503	F1580	P1580	D1684	ALA	THR	GLN	ALA	L2013
R2112	S2014	ARG	V1416	I1504	F1581	H1582	L1685	ALA	ARG	THR	ARG	S2014
N2113	D2015	ALA	L1417	R1504	H1582	S1583	L1686	ALA	GLY	ARG	ALA	D2015
N2114	V2016	VAL	T1420	I1507	L1586	L1586	F1687	PRO	VAL	LEU	ASP	V2016
H2115	V2017	ASP	Q1421	I1508	V1589	V1589	E1689	ALA	SER	GLY	ASP	V2017
L2118	T2018	ASP	F1422	I1509	G1694	G1694	G1694	ALA	ARG	PRO	ASP	T2018
F2119	T2019	LYS	Q1423	L1510	L1695	L1695	L1695	ALA	ARG	SER	LYS	T2019
I2122	P2020	ILE	T1424	D1511	L1699	E1598	L1699	PRO	GLY	LYS	ILE	P2020
A2123	E2021	ASP	Q1425	D1514	R1699	F1700	F1700	ALA	LEU	ARG	ASP	E2021
A2124	A2022	GLY	V1430	D1517	E1702	E1702	E1702	ALA	VAL	ALA	GLY	A2022
G2125	A2023	ALA	A1431	F1518	I1703	I1703	I1703	ALA	VAL	ALA	VAL	A2023
A2126	T2024	VAL	V1435	V1519	V1519	V1519	V1519	ALA	THR	GLY	VAL	T2024
E2127	V2032	VAL	V1441	E1521	A1520	I1611	G1706	ALA	SER	ARG	ALA	V2032
N2128	T2047	ALA	Q1441	I1522	G1612	R1613	K1706	ALA	GLY	VAL	ALA	T2047
P2129	A2053	ARG	V1445	S1523	I1615	I1615	T1710	PRO	ASN	THR	ARG	A2053
Y2134	V2054	THR	V1448	S1524	I1616	I1616	V1711	GLY	LEU	THR	THR	V2054
E2137	F2055	LYS	I1449	R1525	V1619	P1620	A1712	LEU	GLY	LYS	ARG	F2055
V2140	F2056	TRP	A1450	T1526	P1620	P1620	G1713	ALA	ASP	TRP	LEU	F2056
V2141	T2067	GLY	V1455	G1527	R1621	P1622	L1714	LEU	GLY	GLY	VAL	T2067
V2163	R2059	VAL	V1456	R1621	F1622	F1622	L1714	ASP	ASP	THR	VAL	R2059
V2164	W2060	SER	E1457	R1621	F1623	F1623	L1714	GLY	ASP	PRO	SER	W2060
A2166	L2067	PRO	Y1458	L1530	T1624	L1625	L1714	GLU	THR	TRP	PRO	L2067
T2167	L2070	ALA	T1459	E1531	L1625	L1625	L1714	ALA	ALA	ALA	ALA	L2070
R2170	E2074	GLY	A1460	I1532	R1634	R1634	E1730	ASP	LEU	LYS	GLY	E2074
D2173	Q2081	ALA	L1461	V1533	I1634	I1634	V1731	LEU	LEU	HIS	GLY	Q2081
R2174	W2082	THR	A1462	M1534	N1534	N1534	L1732	ALA	GLY	VAL	ALA	W2082
R2175	E2083	VAL	C1463	F1535	P1637	P1637	N1733	ASP	VAL	THR	SER	E2083
L2176	Q2084	GLY	V1464	M1536	P1638	P1638	S1734	ALA	LEU	VAL	GLY	Q2084
K2180	L2085	VAL	V1467	L1537	A1639	A1639	E1735	THR	GLY	PHE	VAL	L2085
R2188	S2086	ALA	Y1468	R1538	T1651	T1651	R1736	VAL	ALA	ALA	VAL	S2086
F2189	Q2087	ASP	G1539	L1538	L1652	L1652	D1737	ALA	GLN	THR	ASP	Q2087
T2192	R2088	GLY	G1539	R1538	W1652	W1652	L1741	LEU	VAL	THR	THR	R2088
L2193	E2090	GLY	S1540	Q1541	K1658	K1658	D1745	ALA	ALA	ALA	GLY	E2090
W2194	G2091	SER	Q1542	Y1542	P1657	P1657	THR	ARG	ALA	ALA	SER	G2091
V2195	T2092	SER	Y1544	I1544	K1658	K1658	ASP	ALA	THR	THR	SER	T2092
F2196	G2093	VAL	L1474	I1544	E1659	E1659	THR	ALA	ALA	ALA	VAL	G2093
V2197	H2094	ARG	R1480	L1551	L1551	L1551	GLU	LYS	PRO	LYS	ARG	H2094
F2197	V2095	ARG	K1483	E1552	E1552	E1552	PRO	ARG	PRO	THR	VAL	V2095
A2198	V2096	GLY	H1485	E1554	E1554	E1554	PRO	GLY	PHE	GLY	ARG	V2096
D2205	A2097	GLY	D1486	E1556	E1556	E1556	ALA	GLN	ALA	GLY	GLY	A2097
L2209	T2098	LEU	V1488	E1557	E1557	E1557	ASP	LEU	GLY	ASP	PRO	T2098
	Q2099	LEU	R1560	R1562	R1562	R1562	ASP	VAL	VAL	LEU	LEU	Q2099
	A2100	LEU	R1561	R1561	R1561	R1561	ASP	VAL	VAL	LEU	LEU	A2100
	W2101	LEU	R1561	R1561	R1561	R1561	ASP	VAL	VAL	LEU	LEU	W2101
	W2102	LEU	R1561	R1561	R1561	R1561	ASP	VAL	VAL	LEU	LEU	W2102
	W2103	LEU	R1561	R1561	R1561	R1561	ASP	VAL	VAL	LEU	LEU	W2103



● Molecule 1: TYPE-I FATTY ACID SYNTHASE







L2833	L2834	V2835	Q2843	S2844	F2845	A2846	D2847	G2848	G2859	A2860	L2861	R2865	T2871	L2876	L2879	G2880	V2881	G2882	A2883	D2884	D2885	I2886	I2889	S2890	K2891	H2892	D2893	T2894	S2895	T2896	P2901	N2902	E2903	L2906	R2909	I2910	A2911	R2916	G2919	N2920	P2921	L2922	F2923	L2924	V2925	Q2927
L2930	K2935	G2936	A2939	V2940	F2941	Q2942	M2943	L2946	G2947	Q2948	R2951	V2954	I2955	P2956	P2957	N2958	R2959	S2960	L2961	D2962	D2966	W2976	V2977	R2978	E2979	P2980	L2983	F2987	P2988	L2989	G2992	L2993	V2994	T2995	G2998	F2999	G3000	H3001	V3002	L3005	V3009	F3014	I3015	A3016		
A3017	L3018	D3019	P3020	S3021	E3022	R3023	A3044	P3050	M3051	D3057	R3058	R3059	H3062	P3065	E3066	Q3069	M3073	L3074	L3075	S3076	T3077	R3080	L3081	L3089																						

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	4337	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	10.361	Depositor
Minimum map value	-2.852	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.8	Depositor
Map size (\AA)	456.0, 456.0, 456.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	2.28, 2.28, 2.28	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: FMN

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	B	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	C	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	D	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	E	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	F	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
All	All	0.39	162/128010 (0.1%)	0.51	78/174222 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	5
1	C	0	5
1	D	0	5
1	E	0	5
1	F	0	5
All	All	0	30

All (162) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	2442	TYR	CB-CG	-6.38	1.42	1.51
1	A	2442	TYR	CB-CG	-6.36	1.42	1.51
1	B	2442	TYR	CB-CG	-6.35	1.42	1.51
1	F	2442	TYR	CB-CG	-6.33	1.42	1.51
1	D	2442	TYR	CB-CG	-6.31	1.42	1.51
1	C	2442	TYR	CB-CG	-6.28	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2134	TYR	CB-CG	-6.25	1.42	1.51
1	C	2134	TYR	CB-CG	-6.23	1.42	1.51
1	A	2134	TYR	CB-CG	-6.22	1.42	1.51
1	F	2134	TYR	CB-CG	-6.21	1.42	1.51
1	D	2134	TYR	CB-CG	-6.19	1.42	1.51
1	E	2134	TYR	CB-CG	-6.18	1.42	1.51
1	B	2089	PHE	CB-CG	-5.45	1.42	1.51
1	C	2089	PHE	CB-CG	-5.44	1.42	1.51
1	D	2089	PHE	CB-CG	-5.44	1.42	1.51
1	B	2119	PHE	CB-CG	-5.43	1.42	1.51
1	A	2119	PHE	CB-CG	-5.42	1.42	1.51
1	C	2119	PHE	CB-CG	-5.42	1.42	1.51
1	F	2119	PHE	CB-CG	-5.42	1.42	1.51
1	D	2119	PHE	CB-CG	-5.41	1.42	1.51
1	E	2089	PHE	CB-CG	-5.41	1.42	1.51
1	E	2119	PHE	CB-CG	-5.40	1.42	1.51
1	F	2089	PHE	CB-CG	-5.40	1.42	1.51
1	D	975	GLU	CB-CG	-5.39	1.42	1.52
1	C	975	GLU	CB-CG	-5.37	1.42	1.52
1	A	2089	PHE	CB-CG	-5.37	1.42	1.51
1	F	2090	GLU	CB-CG	-5.36	1.42	1.52
1	E	2090	GLU	CB-CG	-5.36	1.42	1.52
1	B	975	GLU	CB-CG	-5.36	1.42	1.52
1	F	975	GLU	CB-CG	-5.35	1.42	1.52
1	C	2090	GLU	CB-CG	-5.35	1.42	1.52
1	A	2426	GLU	CB-CG	-5.34	1.42	1.52
1	C	2083	GLU	CB-CG	-5.34	1.42	1.52
1	B	2426	GLU	CB-CG	-5.33	1.42	1.52
1	E	975	GLU	CB-CG	-5.33	1.42	1.52
1	A	975	GLU	CB-CG	-5.32	1.42	1.52
1	F	2426	GLU	CB-CG	-5.32	1.42	1.52
1	B	2090	GLU	CB-CG	-5.32	1.42	1.52
1	E	2426	GLU	CB-CG	-5.32	1.42	1.52
1	D	997	GLU	CB-CG	-5.31	1.42	1.52
1	E	1202	GLU	CB-CG	-5.31	1.42	1.52
1	C	932	GLU	CB-CG	-5.31	1.42	1.52
1	C	2426	GLU	CB-CG	-5.30	1.42	1.52
1	D	2090	GLU	CB-CG	-5.30	1.42	1.52
1	D	980	GLU	CB-CG	-5.30	1.42	1.52
1	A	2083	GLU	CB-CG	-5.30	1.42	1.52
1	A	2090	GLU	CB-CG	-5.30	1.42	1.52
1	D	2127	GLU	CB-CG	-5.30	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	980	GLU	CB-CG	-5.30	1.42	1.52
1	A	997	GLU	CB-CG	-5.30	1.42	1.52
1	F	2449	GLU	CB-CG	-5.30	1.42	1.52
1	A	1202	GLU	CB-CG	-5.29	1.42	1.52
1	D	1202	GLU	CB-CG	-5.28	1.42	1.52
1	E	2083	GLU	CB-CG	-5.28	1.42	1.52
1	F	997	GLU	CB-CG	-5.28	1.42	1.52
1	B	2127	GLU	CB-CG	-5.28	1.42	1.52
1	F	1202	GLU	CB-CG	-5.28	1.42	1.52
1	E	2127	GLU	CB-CG	-5.28	1.42	1.52
1	C	980	GLU	CB-CG	-5.28	1.42	1.52
1	D	2083	GLU	CB-CG	-5.28	1.42	1.52
1	D	2422	GLU	CB-CG	-5.28	1.42	1.52
1	B	932	GLU	CB-CG	-5.27	1.42	1.52
1	B	2422	GLU	CB-CG	-5.27	1.42	1.52
1	C	2449	GLU	CB-CG	-5.27	1.42	1.52
1	B	997	GLU	CB-CG	-5.27	1.42	1.52
1	C	929	GLU	CB-CG	-5.27	1.42	1.52
1	A	2422	GLU	CB-CG	-5.26	1.42	1.52
1	D	2426	GLU	CB-CG	-5.26	1.42	1.52
1	E	932	GLU	CB-CG	-5.26	1.42	1.52
1	E	2449	GLU	CB-CG	-5.26	1.42	1.52
1	A	2127	GLU	CB-CG	-5.26	1.42	1.52
1	D	932	GLU	CB-CG	-5.26	1.42	1.52
1	D	2449	GLU	CB-CG	-5.25	1.42	1.52
1	B	980	GLU	CB-CG	-5.25	1.42	1.52
1	C	997	GLU	CB-CG	-5.25	1.42	1.52
1	D	929	GLU	CB-CG	-5.25	1.42	1.52
1	C	1202	GLU	CB-CG	-5.24	1.42	1.52
1	F	2422	GLU	CB-CG	-5.24	1.42	1.52
1	A	932	GLU	CB-CG	-5.24	1.42	1.52
1	A	2449	GLU	CB-CG	-5.24	1.42	1.52
1	F	929	GLU	CB-CG	-5.24	1.42	1.52
1	F	2083	GLU	CB-CG	-5.24	1.42	1.52
1	F	980	GLU	CB-CG	-5.24	1.42	1.52
1	B	929	GLU	CB-CG	-5.24	1.42	1.52
1	E	997	GLU	CB-CG	-5.24	1.42	1.52
1	F	932	GLU	CB-CG	-5.23	1.42	1.52
1	A	980	GLU	CB-CG	-5.23	1.42	1.52
1	B	1202	GLU	CB-CG	-5.23	1.42	1.52
1	F	2127	GLU	CB-CG	-5.23	1.42	1.52
1	B	2449	GLU	CB-CG	-5.23	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	998	VAL	CB-CG1	-5.22	1.41	1.52
1	E	2422	GLU	CB-CG	-5.22	1.42	1.52
1	C	2422	GLU	CB-CG	-5.21	1.42	1.52
1	E	929	GLU	CB-CG	-5.21	1.42	1.52
1	C	2127	GLU	CB-CG	-5.21	1.42	1.52
1	B	2083	GLU	CB-CG	-5.20	1.42	1.52
1	E	998	VAL	CB-CG1	-5.20	1.42	1.52
1	C	998	VAL	CB-CG1	-5.19	1.42	1.52
1	A	998	VAL	CB-CG2	-5.18	1.42	1.52
1	A	929	GLU	CB-CG	-5.18	1.42	1.52
1	D	998	VAL	CB-CG2	-5.18	1.42	1.52
1	B	931	VAL	CB-CG1	-5.16	1.42	1.52
1	A	1005	VAL	CB-CG1	-5.16	1.42	1.52
1	B	998	VAL	CB-CG2	-5.15	1.42	1.52
1	D	1005	VAL	CB-CG2	-5.14	1.42	1.52
1	D	933	VAL	CB-CG1	-5.14	1.42	1.52
1	B	2095	VAL	CB-CG2	-5.14	1.42	1.52
1	B	1005	VAL	CB-CG1	-5.14	1.42	1.52
1	B	933	VAL	CB-CG2	-5.13	1.42	1.52
1	D	2114	VAL	CB-CG1	-5.13	1.42	1.52
1	E	933	VAL	CB-CG2	-5.13	1.42	1.52
1	E	2096	VAL	CB-CG2	-5.13	1.42	1.52
1	E	2095	VAL	CB-CG1	-5.12	1.42	1.52
1	C	1005	VAL	CB-CG2	-5.12	1.42	1.52
1	E	2114	VAL	CB-CG1	-5.12	1.42	1.52
1	F	1005	VAL	CB-CG1	-5.12	1.42	1.52
1	C	978	VAL	CB-CG2	-5.11	1.42	1.52
1	D	2096	VAL	CB-CG1	-5.11	1.42	1.52
1	D	931	VAL	CB-CG2	-5.11	1.42	1.52
1	F	933	VAL	CB-CG1	-5.10	1.42	1.52
1	F	2095	VAL	CB-CG2	-5.10	1.42	1.52
1	F	2096	VAL	CB-CG1	-5.10	1.42	1.52
1	A	931	VAL	CB-CG2	-5.09	1.42	1.52
1	E	1005	VAL	CB-CG1	-5.09	1.42	1.52
1	E	1207	VAL	CB-CG2	-5.09	1.42	1.52
1	A	978	VAL	CB-CG2	-5.08	1.42	1.52
1	B	978	VAL	CB-CG1	-5.08	1.42	1.52
1	C	931	VAL	CB-CG1	-5.08	1.42	1.52
1	F	978	VAL	CB-CG1	-5.08	1.42	1.52
1	A	2114	VAL	CB-CG1	-5.08	1.42	1.52
1	B	2114	VAL	CB-CG1	-5.08	1.42	1.52
1	D	1207	VAL	CB-CG2	-5.08	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	933	VAL	CB-CG2	-5.07	1.42	1.52
1	F	931	VAL	CB-CG2	-5.07	1.42	1.52
1	E	978	VAL	CB-CG2	-5.07	1.42	1.52
1	F	2114	VAL	CB-CG2	-5.07	1.42	1.52
1	A	1207	VAL	CB-CG1	-5.07	1.42	1.52
1	C	2096	VAL	CB-CG2	-5.07	1.42	1.52
1	C	933	VAL	CB-CG1	-5.07	1.42	1.52
1	C	2114	VAL	CB-CG1	-5.07	1.42	1.52
1	A	2096	VAL	CB-CG1	-5.06	1.42	1.52
1	B	1008	VAL	CB-CG1	-5.06	1.42	1.52
1	B	1207	VAL	CB-CG1	-5.06	1.42	1.52
1	C	1008	VAL	CB-CG2	-5.06	1.42	1.52
1	F	1207	VAL	CB-CG2	-5.06	1.42	1.52
1	A	2095	VAL	CB-CG2	-5.05	1.42	1.52
1	E	931	VAL	CB-CG1	-5.05	1.42	1.52
1	E	1008	VAL	CB-CG2	-5.05	1.42	1.52
1	D	2095	VAL	CB-CG1	-5.05	1.42	1.52
1	C	1004	VAL	CB-CG2	-5.05	1.42	1.52
1	D	978	VAL	CB-CG2	-5.05	1.42	1.52
1	D	1004	VAL	CB-CG2	-5.05	1.42	1.52
1	B	2096	VAL	CB-CG1	-5.04	1.42	1.52
1	C	1207	VAL	CB-CG2	-5.04	1.42	1.52
1	C	2095	VAL	CB-CG1	-5.03	1.42	1.52
1	E	1004	VAL	CB-CG1	-5.03	1.42	1.52
1	A	1004	VAL	CB-CG1	-5.02	1.42	1.52
1	A	1008	VAL	CB-CG2	-5.01	1.42	1.52
1	B	1004	VAL	CB-CG1	-5.01	1.42	1.52
1	D	1008	VAL	CB-CG2	-5.01	1.42	1.52
1	F	1008	VAL	CB-CG2	-5.01	1.42	1.52
1	F	1004	VAL	CB-CG2	-5.00	1.42	1.52

All (78) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	930	PRO	N-CA-CB	7.04	111.75	103.30
1	B	930	PRO	N-CA-CB	7.01	111.71	103.30
1	D	930	PRO	N-CA-CB	6.99	111.69	103.30
1	E	930	PRO	N-CA-CB	6.98	111.68	103.30
1	A	930	PRO	N-CA-CB	6.97	111.66	103.30
1	F	930	PRO	N-CA-CB	6.93	111.62	103.30
1	B	2438	PRO	N-CA-CB	6.32	110.88	103.30
1	B	1206	PRO	N-CA-CB	6.28	110.83	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1206	PRO	N-CA-CB	6.27	110.82	103.30
1	F	1206	PRO	N-CA-CB	6.26	110.82	103.30
1	E	1206	PRO	N-CA-CB	6.26	110.81	103.30
1	C	1206	PRO	N-CA-CB	6.25	110.80	103.30
1	A	1206	PRO	N-CA-CB	6.25	110.79	103.30
1	A	2438	PRO	N-CA-CB	6.25	110.79	103.30
1	F	2438	PRO	N-CA-CB	6.22	110.77	103.30
1	D	2438	PRO	N-CA-CB	6.21	110.76	103.30
1	E	2438	PRO	N-CA-CB	6.21	110.75	103.30
1	C	2438	PRO	N-CA-CB	6.20	110.74	103.30
1	D	2428	PRO	N-CA-CB	6.12	110.64	103.30
1	B	2428	PRO	N-CA-CB	6.11	110.63	103.30
1	C	2428	PRO	N-CA-CB	6.11	110.63	103.30
1	A	2428	PRO	N-CA-CB	6.11	110.63	103.30
1	E	2444	PRO	N-CA-CB	6.10	110.62	103.30
1	F	2444	PRO	N-CA-CB	6.10	110.62	103.30
1	A	2444	PRO	N-CA-CB	6.09	110.60	103.30
1	F	2428	PRO	N-CA-CB	6.08	110.60	103.30
1	E	2428	PRO	N-CA-CB	6.08	110.59	103.30
1	B	2444	PRO	N-CA-CB	6.08	110.59	103.30
1	C	2444	PRO	N-CA-CB	6.07	110.58	103.30
1	D	2444	PRO	N-CA-CB	6.07	110.58	103.30
1	C	2439	PRO	N-CA-CB	6.01	110.51	103.30
1	A	2446	PRO	N-CA-CB	6.01	110.51	103.30
1	D	2446	PRO	N-CA-CB	6.00	110.51	103.30
1	B	2446	PRO	N-CA-CB	5.98	110.48	103.30
1	F	2446	PRO	N-CA-CB	5.96	110.46	103.30
1	C	2446	PRO	N-CA-CB	5.94	110.43	103.30
1	A	2448	PRO	N-CA-CB	5.93	110.42	103.30
1	F	2439	PRO	N-CA-CB	5.91	110.39	103.30
1	E	2446	PRO	N-CA-CB	5.90	110.38	103.30
1	E	2448	PRO	N-CA-CB	5.90	110.38	103.30
1	D	2129	PRO	N-CA-CB	5.90	110.38	103.30
1	D	2439	PRO	N-CA-CB	5.90	110.38	103.30
1	F	2448	PRO	N-CA-CB	5.90	110.38	103.30
1	E	2439	PRO	N-CA-CB	5.89	110.37	103.30
1	A	2439	PRO	N-CA-CB	5.89	110.36	103.30
1	F	2129	PRO	N-CA-CB	5.89	110.36	103.30
1	C	2448	PRO	N-CA-CB	5.88	110.36	103.30
1	B	2129	PRO	N-CA-CB	5.88	110.36	103.30
1	A	2129	PRO	N-CA-CB	5.88	110.35	103.30
1	C	2129	PRO	N-CA-CB	5.87	110.35	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	2129	PRO	N-CA-CB	5.87	110.34	103.30
1	D	2448	PRO	N-CA-CB	5.86	110.33	103.30
1	B	2448	PRO	N-CA-CB	5.84	110.31	103.30
1	B	2439	PRO	N-CA-CB	5.84	110.31	103.30
1	A	1009	PRO	N-CA-CB	5.82	110.28	103.30
1	C	1009	PRO	N-CA-CB	5.78	110.24	103.30
1	F	1009	PRO	N-CA-CB	5.78	110.24	103.30
1	B	990	PRO	N-CA-CB	5.77	110.22	103.30
1	B	1009	PRO	N-CA-CB	5.75	110.20	103.30
1	D	1009	PRO	N-CA-CB	5.75	110.20	103.30
1	E	1009	PRO	N-CA-CB	5.73	110.18	103.30
1	C	990	PRO	N-CA-CB	5.73	110.18	103.30
1	E	990	PRO	N-CA-CB	5.73	110.17	103.30
1	D	990	PRO	N-CA-CB	5.72	110.17	103.30
1	F	990	PRO	N-CA-CB	5.71	110.16	103.30
1	A	990	PRO	N-CA-CB	5.68	110.11	103.30
1	B	1221	PRO	N-CA-CB	5.63	110.05	103.30
1	A	1221	PRO	N-CA-CB	5.61	110.03	103.30
1	C	1221	PRO	N-CA-CB	5.60	110.02	103.30
1	F	2436	PRO	N-CA-CB	5.59	110.01	103.30
1	D	1221	PRO	N-CA-CB	5.58	110.00	103.30
1	F	1221	PRO	N-CA-CB	5.57	109.98	103.30
1	A	2436	PRO	N-CA-CB	5.53	109.94	103.30
1	E	2436	PRO	N-CA-CB	5.53	109.93	103.30
1	B	2436	PRO	N-CA-CB	5.52	109.92	103.30
1	D	2436	PRO	N-CA-CB	5.51	109.92	103.30
1	C	2436	PRO	N-CA-CB	5.51	109.91	103.30
1	E	1221	PRO	N-CA-CB	5.50	109.91	103.30

There are no chirality outliers.

All (30) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1148	GLU	Peptide
1	A	150	THR	Peptide
1	A	202	GLY	Peptide
1	A	2584	ASP	Peptide
1	A	357	GLY	Peptide
1	B	1148	GLU	Peptide
1	B	150	THR	Peptide
1	B	202	GLY	Peptide
1	B	2584	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	B	357	GLY	Peptide
1	C	1148	GLU	Peptide
1	C	150	THR	Peptide
1	C	202	GLY	Peptide
1	C	2584	ASP	Peptide
1	C	357	GLY	Peptide
1	D	1148	GLU	Peptide
1	D	150	THR	Peptide
1	D	202	GLY	Peptide
1	D	2584	ASP	Peptide
1	D	357	GLY	Peptide
1	E	1148	GLU	Peptide
1	E	150	THR	Peptide
1	E	202	GLY	Peptide
1	E	2584	ASP	Peptide
1	E	357	GLY	Peptide
1	F	1148	GLU	Peptide
1	F	150	THR	Peptide
1	F	202	GLY	Peptide
1	F	2584	ASP	Peptide
1	F	357	GLY	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	20945	0	20595	881	0
1	B	20945	0	20595	872	0
1	C	20945	0	20595	872	0
1	D	20945	0	20595	873	0
1	E	20945	0	20595	878	0
1	F	20945	0	20595	878	0
2	A	31	0	19	4	0
2	B	31	0	19	5	0
2	C	31	0	19	4	0
2	D	31	0	19	4	0
2	E	31	0	19	4	0
2	F	31	0	19	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	125856	0	123684	4910	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 20.

All (4910) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:THR:HG23	1:A:1014:TRP:H	1.15	1.10
1:E:1013:THR:HG23	1:E:1014:TRP:H	1.15	1.09
1:A:2112:ARG:H	1:A:2115:HIS:CG	1.73	1.07
1:C:2094:HIS:CG	1:C:2096:VAL:HG22	1.90	1.06
1:D:1013:THR:HG23	1:D:1014:TRP:H	1.15	1.06
1:F:1013:THR:HG23	1:F:1014:TRP:H	1.15	1.06
1:E:2094:HIS:CG	1:E:2096:VAL:HG22	1.90	1.06
1:A:2094:HIS:CG	1:A:2096:VAL:HG12	1.90	1.06
1:C:2112:ARG:H	1:C:2115:HIS:CG	1.73	1.06
1:E:2112:ARG:H	1:E:2115:HIS:CG	1.73	1.06
1:F:2112:ARG:H	1:F:2115:HIS:CG	1.73	1.06
1:C:1013:THR:HG23	1:C:1014:TRP:H	1.15	1.05
1:B:2112:ARG:H	1:B:2115:HIS:CG	1.73	1.05
1:D:2094:HIS:CG	1:D:2096:VAL:HG12	1.90	1.05
1:B:2094:HIS:CG	1:B:2096:VAL:HG12	1.90	1.05
1:F:2094:HIS:CG	1:F:2096:VAL:HG12	1.90	1.05
1:D:2112:ARG:H	1:D:2115:HIS:CG	1.73	1.05
1:B:1013:THR:HG23	1:B:1014:TRP:H	1.15	1.03
1:F:992:THR:CG2	1:F:996:LEU:CG	2.39	1.01
1:B:992:THR:CG2	1:B:996:LEU:CG	2.39	1.01
1:A:992:THR:CG2	1:A:996:LEU:CG	2.39	1.01
1:C:992:THR:CG2	1:C:996:LEU:CG	2.39	1.01
1:E:992:THR:CG2	1:E:996:LEU:CG	2.39	1.00
1:C:2433:ARG:HA	1:C:2524:CYS:HB3	1.44	1.00
1:A:2433:ARG:HA	1:A:2524:CYS:HB3	1.44	1.00
1:D:2433:ARG:HA	1:D:2524:CYS:HB3	1.44	1.00
1:D:992:THR:CG2	1:D:996:LEU:CG	2.39	0.99
1:B:2433:ARG:HA	1:B:2524:CYS:HB3	1.44	0.99
1:E:792:ALA:O	1:E:2433:ARG:CG	2.12	0.98
1:E:2433:ARG:HA	1:E:2524:CYS:HB3	1.44	0.98
1:A:1220:THR:HG22	1:A:1221:PRO:N	1.78	0.98
1:C:792:ALA:O	1:C:2433:ARG:CG	2.12	0.98
1:E:1220:THR:HG22	1:E:1221:PRO:N	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2433:ARG:HA	1:F:2524:CYS:HB3	1.44	0.98
1:D:792:ALA:O	1:D:2433:ARG:CG	2.12	0.98
1:F:792:ALA:O	1:F:2433:ARG:CG	2.12	0.98
1:C:3080:ARG:HH11	1:C:3080:ARG:HG3	1.29	0.98
1:A:792:ALA:O	1:A:2433:ARG:CG	2.11	0.98
1:D:1220:THR:HG22	1:D:1221:PRO:N	1.78	0.97
1:F:1220:THR:HG22	1:F:1221:PRO:N	1.77	0.97
1:F:3080:ARG:HH11	1:F:3080:ARG:HG3	1.29	0.97
1:C:407:VAL:HB	1:C:933:VAL:HG11	1.47	0.97
1:B:792:ALA:O	1:B:2433:ARG:CG	2.12	0.96
1:D:407:VAL:HB	1:D:933:VAL:HG11	1.47	0.96
1:A:407:VAL:HB	1:A:933:VAL:HG21	1.47	0.96
1:C:1220:THR:HG22	1:C:1221:PRO:N	1.78	0.96
1:E:3080:ARG:HH11	1:E:3080:ARG:HG3	1.29	0.96
1:B:1220:THR:HG22	1:B:1221:PRO:N	1.77	0.96
1:B:3080:ARG:HH11	1:B:3080:ARG:HG3	1.29	0.95
1:E:992:THR:HG21	1:E:996:LEU:CG	1.97	0.94
1:A:3080:ARG:HH11	1:A:3080:ARG:HG3	1.29	0.94
1:D:992:THR:HG21	1:D:996:LEU:CG	1.97	0.94
1:F:407:VAL:HB	1:F:933:VAL:HG11	1.47	0.94
1:F:992:THR:HG21	1:F:996:LEU:CG	1.97	0.94
1:A:992:THR:HG21	1:A:996:LEU:CG	1.97	0.94
1:D:3080:ARG:HG3	1:D:3080:ARG:HH11	1.29	0.94
1:C:992:THR:HG21	1:C:996:LEU:CG	1.97	0.93
1:D:793:ARG:O	1:D:2435:LEU:CG	2.17	0.93
1:F:793:ARG:O	1:F:2435:LEU:CG	2.17	0.93
1:B:992:THR:HG21	1:B:996:LEU:CG	1.97	0.93
1:B:1003:HIS:CG	1:B:1004:VAL:H	1.86	0.93
1:B:1012:GLY:O	1:B:1013:THR:HG22	1.69	0.93
1:C:2100:ALA:O	1:C:2103:TRP:CG	2.22	0.93
1:A:2100:ALA:O	1:A:2103:TRP:CG	2.22	0.93
1:B:793:ARG:O	1:B:2435:LEU:CG	2.17	0.93
1:B:2100:ALA:O	1:B:2103:TRP:CG	2.22	0.93
1:C:1012:GLY:O	1:C:1013:THR:HG22	1.69	0.93
1:C:1013:THR:HG23	1:C:1014:TRP:N	1.84	0.93
1:D:1012:GLY:O	1:D:1013:THR:HG22	1.69	0.93
1:F:1003:HIS:CG	1:F:1004:VAL:H	1.86	0.93
1:D:2100:ALA:O	1:D:2103:TRP:CG	2.22	0.93
1:F:2100:ALA:O	1:F:2103:TRP:CG	2.22	0.92
1:A:793:ARG:O	1:A:2435:LEU:CG	2.16	0.92
1:E:2100:ALA:O	1:E:2103:TRP:CG	2.22	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1013:THR:HG23	1:D:1014:TRP:N	1.84	0.92
1:B:407:VAL:HB	1:B:933:VAL:HG21	1.47	0.92
1:C:793:ARG:O	1:C:2435:LEU:CG	2.17	0.92
1:C:1003:HIS:CG	1:C:1004:VAL:H	1.86	0.92
1:E:407:VAL:HB	1:E:933:VAL:HG21	1.47	0.92
1:E:793:ARG:O	1:E:2435:LEU:CG	2.17	0.92
1:D:1003:HIS:CG	1:D:1004:VAL:H	1.86	0.92
1:F:1012:GLY:O	1:F:1013:THR:HG22	1.69	0.91
1:A:1012:GLY:O	1:A:1013:THR:HG22	1.69	0.91
1:F:1013:THR:HG23	1:F:1014:TRP:N	1.84	0.91
1:E:1013:THR:HG23	1:E:1014:TRP:N	1.84	0.90
1:B:1013:THR:HG23	1:B:1014:TRP:N	1.84	0.90
1:E:1012:GLY:O	1:E:1013:THR:HG22	1.69	0.90
1:E:1003:HIS:CG	1:E:1004:VAL:H	1.86	0.90
1:A:1013:THR:HG23	1:A:1014:TRP:N	1.84	0.89
1:A:1003:HIS:CG	1:A:1004:VAL:H	1.86	0.89
1:E:931:VAL:HG13	1:E:934:LEU:H	1.40	0.87
1:C:931:VAL:HG13	1:C:934:LEU:H	1.40	0.86
1:B:931:VAL:HG11	1:B:933:VAL:CG2	2.06	0.86
1:F:931:VAL:HG23	1:F:934:LEU:H	1.40	0.86
1:C:931:VAL:HG11	1:C:933:VAL:CG1	2.06	0.86
1:A:931:VAL:HG23	1:A:934:LEU:H	1.40	0.85
1:C:2105:GLY:O	1:C:2108:LEU:CG	2.24	0.85
1:C:3077:THR:HA	1:D:2865:ARG:HD3	1.57	0.85
1:F:2105:GLY:O	1:F:2108:LEU:CG	2.24	0.85
1:A:2105:GLY:O	1:A:2108:LEU:CG	2.25	0.85
1:A:3077:THR:HA	1:F:2865:ARG:HD3	1.57	0.85
1:E:931:VAL:HG11	1:E:933:VAL:CG2	2.06	0.85
1:A:1218:THR:HG23	1:A:1441:GLN:OE1	1.77	0.85
1:B:2105:GLY:O	1:B:2108:LEU:CG	2.24	0.85
1:D:931:VAL:HG21	1:D:933:VAL:CG1	2.06	0.85
1:D:2105:GLY:O	1:D:2108:LEU:CG	2.24	0.85
1:A:931:VAL:HG21	1:A:933:VAL:CG2	2.06	0.85
1:B:3077:THR:HA	1:E:2865:ARG:HD3	1.57	0.85
1:D:1218:THR:HG23	1:D:1441:GLN:OE1	1.77	0.85
1:C:1218:THR:HG23	1:C:1441:GLN:OE1	1.77	0.84
1:F:1218:THR:HG23	1:F:1441:GLN:OE1	1.77	0.84
1:B:2865:ARG:HD3	1:E:3077:THR:HA	1.57	0.84
1:E:2105:GLY:O	1:E:2108:LEU:CG	2.25	0.84
1:D:931:VAL:HG23	1:D:934:LEU:H	1.40	0.84
1:F:992:THR:HG22	1:F:996:LEU:CG	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2865:ARG:HD3	1:F:3077:THR:HA	1.57	0.84
1:B:1218:THR:HG23	1:B:1441:GLN:OE1	1.77	0.84
1:F:931:VAL:HG21	1:F:933:VAL:CG1	2.06	0.84
1:A:992:THR:HG22	1:A:996:LEU:CG	2.07	0.84
1:B:931:VAL:HG13	1:B:934:LEU:H	1.40	0.84
1:C:992:THR:HG22	1:C:996:LEU:CG	2.07	0.83
1:D:992:THR:HG22	1:D:996:LEU:CG	2.07	0.83
1:E:992:THR:HG22	1:E:996:LEU:CG	2.07	0.83
1:E:1218:THR:HG23	1:E:1441:GLN:OE1	1.77	0.83
1:B:43:PRO:HG2	1:B:348:ALA:HA	1.60	0.83
1:B:992:THR:HG22	1:B:996:LEU:CG	2.07	0.83
1:A:43:PRO:HG2	1:A:348:ALA:HA	1.60	0.83
1:C:2865:ARG:HD3	1:D:3077:THR:HA	1.58	0.83
1:B:1538:ARG:HH11	1:B:1722:PRO:HB3	1.43	0.83
1:E:43:PRO:HG2	1:E:348:ALA:HA	1.60	0.83
1:F:1538:ARG:HH11	1:F:1722:PRO:HB3	1.43	0.82
1:B:2016:VAL:HG13	1:B:2020:PRO:HG3	1.62	0.82
1:E:2016:VAL:HG13	1:E:2020:PRO:HG3	1.62	0.82
1:D:2016:VAL:HG13	1:D:2020:PRO:HG3	1.62	0.82
1:C:1538:ARG:HH11	1:C:1722:PRO:HB3	1.43	0.81
1:D:43:PRO:HG2	1:D:348:ALA:HA	1.60	0.81
1:D:1538:ARG:HH11	1:D:1722:PRO:HB3	1.43	0.81
1:A:1538:ARG:HH11	1:A:1722:PRO:HB3	1.43	0.81
1:E:2730:TYR:OH	1:E:3059:ARG:NH1	2.14	0.81
1:F:46:VAL:HB	1:F:155:VAL:HG13	1.63	0.81
1:A:2730:TYR:OH	1:A:3059:ARG:NH1	2.14	0.81
1:C:43:PRO:HG2	1:C:348:ALA:HA	1.60	0.81
1:F:43:PRO:HG2	1:F:348:ALA:HA	1.61	0.81
1:D:2730:TYR:OH	1:D:3059:ARG:NH1	2.14	0.81
1:F:138:ARG:NH2	1:F:175:ASP:OD2	2.14	0.81
1:A:2016:VAL:HG13	1:A:2020:PRO:HG3	1.62	0.81
1:C:967:VAL:HA	1:C:970:ILE:HB	1.63	0.81
1:F:967:VAL:HA	1:F:970:ILE:HB	1.63	0.81
1:C:46:VAL:HB	1:C:155:VAL:HG13	1.63	0.81
1:E:46:VAL:HB	1:E:155:VAL:HG13	1.63	0.81
1:E:138:ARG:NH2	1:E:175:ASP:OD2	2.14	0.81
1:B:46:VAL:HB	1:B:155:VAL:HG13	1.63	0.80
1:C:931:VAL:CG1	1:C:933:VAL:CG1	2.60	0.80
1:D:138:ARG:NH2	1:D:175:ASP:OD2	2.14	0.80
1:E:967:VAL:HA	1:E:970:ILE:HB	1.63	0.80
1:F:2016:VAL:HG13	1:F:2020:PRO:HG3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:138:ARG:NH2	1:A:175:ASP:OD2	2.14	0.80
1:F:931:VAL:CG2	1:F:933:VAL:CG1	2.60	0.80
1:B:138:ARG:NH2	1:B:175:ASP:OD2	2.14	0.80
1:B:967:VAL:HA	1:B:970:ILE:HB	1.63	0.80
1:C:2610:ARG:HH12	1:C:2700:LEU:HD11	1.47	0.80
1:E:1538:ARG:HH11	1:E:1722:PRO:HB3	1.43	0.80
1:A:931:VAL:CG2	1:A:933:VAL:CG2	2.60	0.80
1:C:138:ARG:NH2	1:C:175:ASP:OD2	2.14	0.80
1:F:2730:TYR:OH	1:F:3059:ARG:NH1	2.14	0.80
1:C:2730:TYR:OH	1:C:3059:ARG:NH1	2.14	0.80
1:D:967:VAL:HA	1:D:970:ILE:HB	1.63	0.80
1:B:931:VAL:CG1	1:B:933:VAL:CG2	2.60	0.80
1:C:2016:VAL:HG13	1:C:2020:PRO:HG3	1.62	0.80
1:E:931:VAL:CG1	1:E:933:VAL:CG2	2.60	0.80
1:A:46:VAL:HB	1:A:155:VAL:HG13	1.63	0.80
1:A:967:VAL:HA	1:A:970:ILE:HB	1.63	0.79
1:D:931:VAL:CG2	1:D:933:VAL:CG1	2.60	0.79
1:E:931:VAL:HG11	1:E:933:VAL:HG23	1.65	0.79
1:B:2730:TYR:OH	1:B:3059:ARG:NH1	2.14	0.79
1:F:273:ARG:HB2	1:F:282:VAL:H	1.47	0.79
1:A:273:ARG:HB2	1:A:282:VAL:H	1.47	0.79
1:D:1220:THR:CG2	1:D:1221:PRO:N	2.46	0.79
1:A:2450:TRP:CG	1:A:3016:ALA:HB1	2.18	0.79
1:C:273:ARG:HB2	1:C:282:VAL:H	1.47	0.79
1:B:273:ARG:HB2	1:B:282:VAL:H	1.47	0.79
1:B:2610:ARG:HH12	1:B:2700:LEU:HD11	1.47	0.79
1:D:2610:ARG:HH12	1:D:2700:LEU:HD11	1.47	0.79
1:F:2450:TRP:CG	1:F:3016:ALA:HB1	2.18	0.79
1:D:46:VAL:HB	1:D:155:VAL:HG13	1.63	0.79
1:F:2610:ARG:HH12	1:F:2700:LEU:HD11	1.47	0.79
1:C:2450:TRP:CG	1:C:3016:ALA:HB1	2.18	0.78
1:F:1329:ALA:HB3	1:F:1337:MET:H	1.48	0.78
1:E:2450:TRP:CG	1:E:3016:ALA:HB1	2.18	0.78
1:D:273:ARG:HB2	1:D:282:VAL:H	1.47	0.78
1:D:971:ALA:O	1:D:974:THR:HG22	1.84	0.78
1:E:2610:ARG:HH12	1:E:2700:LEU:HD11	1.47	0.78
1:A:971:ALA:O	1:A:974:THR:HG22	1.84	0.78
1:F:931:VAL:HG21	1:F:933:VAL:HG13	1.65	0.78
1:B:971:ALA:O	1:B:974:THR:HG22	1.84	0.78
1:B:2450:TRP:CG	1:B:3016:ALA:HB1	2.18	0.78
1:E:1329:ALA:HB3	1:E:1337:MET:H	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:931:VAL:HG11	1:B:933:VAL:HG23	1.65	0.77
1:B:2451:ASP:CG	1:B:2454:ASP:OD2	2.22	0.77
1:C:971:ALA:O	1:C:974:THR:HG22	1.84	0.77
1:D:2450:TRP:CG	1:D:3016:ALA:HB1	2.18	0.77
1:F:1220:THR:CG2	1:F:1221:PRO:N	2.46	0.77
1:E:273:ARG:HB2	1:E:282:VAL:H	1.47	0.77
1:F:971:ALA:O	1:F:974:THR:HG22	1.84	0.77
1:D:931:VAL:HG21	1:D:933:VAL:HG13	1.65	0.77
1:A:1329:ALA:HB3	1:A:1337:MET:H	1.48	0.77
1:A:931:VAL:CG2	1:A:933:VAL:HG23	2.15	0.77
1:B:1329:ALA:HB3	1:B:1337:MET:H	1.48	0.77
1:E:971:ALA:O	1:E:974:THR:HG22	1.84	0.77
1:A:2451:ASP:CG	1:A:2454:ASP:OD2	2.22	0.77
1:C:931:VAL:CG1	1:C:933:VAL:HG13	2.15	0.77
1:C:2112:ARG:O	1:C:2115:HIS:CG	2.38	0.77
1:D:2451:ASP:CG	1:D:2454:ASP:OD2	2.22	0.77
1:A:931:VAL:HG21	1:A:933:VAL:HG23	1.64	0.77
1:A:2610:ARG:HH12	1:A:2700:LEU:HD11	1.47	0.77
1:E:2451:ASP:CG	1:E:2454:ASP:OD2	2.22	0.77
1:F:931:VAL:CG2	1:F:933:VAL:HG13	2.15	0.77
1:E:1220:THR:CG2	1:E:1221:PRO:N	2.46	0.76
1:B:1003:HIS:CG	1:B:1004:VAL:N	2.53	0.76
1:E:931:VAL:CG1	1:E:933:VAL:HG23	2.15	0.76
1:A:2557:LEU:O	1:A:2613:ARG:N	2.18	0.76
1:A:2645:ASP:OD2	1:A:2691:SER:N	2.19	0.76
1:C:931:VAL:HG11	1:C:933:VAL:HG13	1.65	0.76
1:C:1003:HIS:CG	1:C:1004:VAL:N	2.53	0.76
1:C:2451:ASP:CG	1:C:2454:ASP:OD2	2.22	0.76
1:C:934:LEU:O	1:C:937:ARG:CG	2.34	0.76
1:C:1220:THR:CG2	1:C:1221:PRO:N	2.46	0.76
1:B:2112:ARG:O	1:B:2115:HIS:CG	2.38	0.76
1:D:2112:ARG:O	1:D:2115:HIS:CG	2.38	0.76
1:F:934:LEU:O	1:F:937:ARG:CG	2.34	0.76
1:A:934:LEU:O	1:A:937:ARG:CG	2.34	0.76
1:D:2645:ASP:OD2	1:D:2691:SER:N	2.19	0.76
1:E:2557:LEU:O	1:E:2613:ARG:N	2.18	0.76
1:D:931:VAL:CG2	1:D:933:VAL:HG13	2.15	0.76
1:F:2451:ASP:CG	1:F:2454:ASP:OD2	2.23	0.76
1:B:1097:VAL:HB	1:B:1146:PRO:HB2	1.68	0.76
1:D:934:LEU:O	1:D:937:ARG:CG	2.34	0.76
1:D:1329:ALA:HB3	1:D:1337:MET:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2112:ARG:O	1:F:2115:HIS:CG	2.38	0.76
1:A:1695:LEU:HD23	1:B:257:ARG:HH12	1.51	0.75
1:A:2112:ARG:O	1:A:2115:HIS:CG	2.38	0.75
1:D:1097:VAL:HB	1:D:1146:PRO:HB2	1.68	0.75
1:D:1695:LEU:HD23	1:E:257:ARG:HH12	1.50	0.75
1:E:2112:ARG:O	1:E:2115:HIS:CG	2.38	0.75
1:E:1695:LEU:HD23	1:F:257:ARG:HH12	1.51	0.75
1:B:1695:LEU:HD23	1:C:257:ARG:HH12	1.50	0.75
1:C:2645:ASP:OD2	1:C:2691:SER:N	2.19	0.75
1:A:257:ARG:HH12	1:C:1695:LEU:HD23	1.51	0.75
1:A:1097:VAL:HB	1:A:1146:PRO:HB2	1.68	0.75
1:B:934:LEU:O	1:B:937:ARG:CG	2.34	0.75
1:B:2557:LEU:O	1:B:2613:ARG:N	2.18	0.75
1:C:1329:ALA:HB3	1:C:1337:MET:H	1.49	0.75
1:D:257:ARG:HH12	1:F:1695:LEU:HD23	1.51	0.75
1:A:1556:GLU:OE2	1:A:1560:ARG:NH2	2.20	0.75
1:B:931:VAL:CG1	1:B:933:VAL:HG23	2.15	0.74
1:F:445:VAL:HG13	1:F:475:LEU:HD21	1.69	0.74
1:F:1097:VAL:HB	1:F:1146:PRO:HB2	1.68	0.74
1:D:445:VAL:HG13	1:D:475:LEU:HD21	1.69	0.74
1:E:33:ALA:HB2	1:E:390:VAL:HA	1.69	0.74
1:C:33:ALA:HB2	1:C:390:VAL:HA	1.70	0.74
1:E:934:LEU:O	1:E:937:ARG:CG	2.34	0.74
1:B:1220:THR:CG2	1:B:1221:PRO:N	2.46	0.74
1:D:3015:ILE:HG12	1:D:3023:ARG:HG3	1.69	0.74
1:E:445:VAL:HG13	1:E:475:LEU:HD21	1.69	0.74
1:F:2645:ASP:OD2	1:F:2691:SER:N	2.19	0.74
1:A:33:ALA:HB2	1:A:390:VAL:HA	1.70	0.74
1:B:1556:GLU:OE2	1:B:1560:ARG:NH2	2.20	0.74
1:C:3015:ILE:HG12	1:C:3023:ARG:HG3	1.69	0.74
1:E:1097:VAL:HB	1:E:1146:PRO:HB2	1.68	0.74
1:C:2700:LEU:HD22	1:D:2697:HIS:HD2	1.53	0.74
1:D:1556:GLU:OE2	1:D:1560:ARG:NH2	2.20	0.74
1:C:1097:VAL:HB	1:C:1146:PRO:HB2	1.68	0.74
1:E:1556:GLU:OE2	1:E:1560:ARG:NH2	2.20	0.74
1:E:2645:ASP:OD2	1:E:2691:SER:N	2.19	0.74
1:E:3015:ILE:HG12	1:E:3023:ARG:HG3	1.69	0.74
1:B:3015:ILE:HG12	1:B:3023:ARG:HG3	1.69	0.74
1:C:2053:ALA:O	1:C:2807:ARG:NH2	2.21	0.73
1:D:2557:LEU:O	1:D:2613:ARG:N	2.18	0.73
1:A:2697:HIS:HD2	1:F:2700:LEU:HD22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2645:ASP:OD2	1:B:2691:SER:N	2.19	0.73
1:D:437:PRO:HG3	1:D:876:LEU:HB3	1.70	0.73
1:D:2096:VAL:O	1:D:2099:GLN:CG	2.37	0.73
1:F:1168:ARG:N	1:F:1194:ILE:O	2.21	0.73
1:F:3015:ILE:HG12	1:F:3023:ARG:HG3	1.69	0.73
1:A:1220:THR:CG2	1:A:1221:PRO:N	2.46	0.73
1:B:2053:ALA:O	1:B:2807:ARG:NH2	2.21	0.73
1:C:1556:GLU:OE2	1:C:1560:ARG:NH2	2.20	0.73
1:E:1168:ARG:N	1:E:1194:ILE:O	2.21	0.73
1:A:2096:VAL:O	1:A:2099:GLN:CG	2.37	0.73
1:A:2700:LEU:HD22	1:F:2697:HIS:HD2	1.53	0.73
1:C:2612:PRO:O	1:D:2603:ARG:NH2	2.22	0.73
1:D:33:ALA:HB2	1:D:390:VAL:HA	1.70	0.73
1:F:33:ALA:HB2	1:F:390:VAL:HA	1.70	0.73
1:B:2603:ARG:NH2	1:E:2612:PRO:O	2.22	0.73
1:F:2053:ALA:O	1:F:2807:ARG:NH2	2.21	0.73
1:A:437:PRO:HG3	1:A:876:LEU:HB3	1.70	0.73
1:A:445:VAL:HG13	1:A:475:LEU:HD21	1.69	0.73
1:B:2700:LEU:HD22	1:E:2697:HIS:HD2	1.53	0.73
1:B:2883:ALA:O	1:B:2916:ARG:NH1	2.22	0.73
1:C:445:VAL:HG13	1:C:475:LEU:HD21	1.69	0.73
1:C:2845:PHE:HD1	1:D:2731:GLY:HA2	1.54	0.73
1:E:1003:HIS:CG	1:E:1004:VAL:N	2.53	0.73
1:E:2883:ALA:O	1:E:2916:ARG:NH1	2.22	0.73
1:F:1556:GLU:OE2	1:F:1560:ARG:NH2	2.20	0.73
1:A:3015:ILE:HG12	1:A:3023:ARG:HG3	1.69	0.73
1:B:936:ARG:HB3	1:B:941:ARG:HB3	1.71	0.73
1:F:2883:ALA:O	1:F:2916:ARG:NH1	2.22	0.73
1:A:2731:GLY:HA2	1:F:2845:PHE:HD1	1.54	0.72
1:B:445:VAL:HG13	1:B:475:LEU:HD21	1.69	0.72
1:B:2096:VAL:O	1:B:2099:GLN:CG	2.36	0.72
1:C:1168:ARG:N	1:C:1194:ILE:O	2.21	0.72
1:D:2053:ALA:O	1:D:2807:ARG:NH2	2.21	0.72
1:E:437:PRO:HG3	1:E:876:LEU:HB3	1.70	0.72
1:E:2096:VAL:O	1:E:2099:GLN:CG	2.37	0.72
1:F:2096:VAL:O	1:F:2099:GLN:CG	2.37	0.72
1:A:2612:PRO:O	1:F:2603:ARG:NH2	2.22	0.72
1:B:437:PRO:HG3	1:B:876:LEU:HB3	1.71	0.72
1:B:1168:ARG:N	1:B:1194:ILE:O	2.21	0.72
1:B:2998:GLY:N	1:B:3002:VAL:O	2.23	0.72
1:C:936:ARG:HB3	1:C:941:ARG:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1400:PRO:HD2	1:D:1416:VAL:HG22	1.72	0.72
1:E:936:ARG:HB3	1:E:941:ARG:HB3	1.71	0.72
1:A:2845:PHE:HD1	1:F:2731:GLY:HA2	1.54	0.72
1:B:2612:PRO:O	1:E:2603:ARG:NH2	2.22	0.72
1:C:2096:VAL:O	1:C:2099:GLN:CG	2.36	0.72
1:C:2557:LEU:O	1:C:2613:ARG:N	2.18	0.72
1:C:2603:ARG:NH2	1:D:2612:PRO:O	2.22	0.72
1:D:1168:ARG:N	1:D:1194:ILE:O	2.21	0.72
1:D:2998:GLY:N	1:D:3002:VAL:O	2.23	0.72
1:B:2845:PHE:HD1	1:E:2731:GLY:HA2	1.54	0.72
1:E:2053:ALA:O	1:E:2807:ARG:NH2	2.21	0.72
1:F:70:SER:OG	1:F:142:ARG:NH2	2.23	0.72
1:A:1253:ARG:HH11	1:A:1253:ARG:HG3	1.55	0.72
1:A:2883:ALA:O	1:A:2916:ARG:NH1	2.22	0.72
1:B:2103:TRP:CG	1:B:2104:GLN:N	2.58	0.72
1:C:437:PRO:HG3	1:C:876:LEU:HB3	1.70	0.72
1:D:1237:ARG:NH1	1:E:95:PRO:HB2	2.05	0.72
1:E:70:SER:OG	1:E:142:ARG:NH2	2.23	0.72
1:F:2103:TRP:CG	1:F:2104:GLN:N	2.58	0.72
1:A:2603:ARG:NH2	1:F:2612:PRO:O	2.22	0.72
1:B:1218:THR:CG2	1:B:1441:GLN:OE1	2.38	0.72
1:E:1253:ARG:HG3	1:E:1253:ARG:HH11	1.55	0.72
1:A:2053:ALA:O	1:A:2807:ARG:NH2	2.21	0.72
1:B:1400:PRO:HD2	1:B:1416:VAL:HG22	1.72	0.72
1:C:1218:THR:CG2	1:C:1441:GLN:OE1	2.38	0.72
1:D:2883:ALA:O	1:D:2916:ARG:NH1	2.22	0.72
1:A:2998:GLY:N	1:A:3002:VAL:O	2.23	0.72
1:B:33:ALA:HB2	1:B:390:VAL:HA	1.69	0.72
1:C:2883:ALA:O	1:C:2916:ARG:NH1	2.22	0.72
1:E:2103:TRP:CG	1:E:2104:GLN:N	2.58	0.72
1:C:2268:GLN:OE1	1:C:2319:ARG:NH1	2.23	0.72
1:B:2268:GLN:OE1	1:B:2319:ARG:NH1	2.23	0.71
1:C:3075:LEU:HD23	1:D:2861:LEU:HD21	1.72	0.71
1:F:1253:ARG:HH11	1:F:1253:ARG:HG3	1.55	0.71
1:B:2731:GLY:HA2	1:E:2845:PHE:HD1	1.54	0.71
1:B:2861:LEU:HD21	1:E:3075:LEU:HD23	1.72	0.71
1:D:1253:ARG:HH11	1:D:1253:ARG:HG3	1.54	0.71
1:F:437:PRO:HG3	1:F:876:LEU:HB3	1.70	0.71
1:F:936:ARG:HB3	1:F:941:ARG:HB3	1.71	0.71
1:A:936:ARG:HB3	1:A:941:ARG:HB3	1.71	0.71
1:A:1168:ARG:N	1:A:1194:ILE:O	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:SER:OG	1:B:142:ARG:NH2	2.23	0.71
1:B:1253:ARG:HH11	1:B:1253:ARG:HG3	1.54	0.71
1:B:2697:HIS:HD2	1:E:2700:LEU:HD22	1.53	0.71
1:D:95:PRO:HB2	1:F:1237:ARG:NH1	2.05	0.71
1:F:2557:LEU:O	1:F:2613:ARG:N	2.18	0.71
1:A:1390:PHE:HA	1:E:2282:ASP:HB3	1.72	0.71
1:A:2268:GLN:OE1	1:A:2319:ARG:NH1	2.23	0.71
1:D:1218:THR:CG2	1:D:1441:GLN:OE1	2.38	0.71
1:C:2697:HIS:HD2	1:D:2700:LEU:HD22	1.53	0.71
1:A:70:SER:OG	1:A:142:ARG:NH2	2.23	0.71
1:A:1400:PRO:HD2	1:A:1416:VAL:HG22	1.72	0.71
1:C:2731:GLY:HA2	1:D:2845:PHE:HD1	1.54	0.71
1:C:2998:GLY:N	1:C:3002:VAL:O	2.23	0.71
1:E:1218:THR:CG2	1:E:1441:GLN:OE1	2.38	0.71
1:E:2998:GLY:N	1:E:3002:VAL:O	2.23	0.71
1:F:1218:THR:CG2	1:F:1441:GLN:OE1	2.38	0.71
1:F:2268:GLN:OE1	1:F:2319:ARG:NH1	2.23	0.71
1:A:3075:LEU:HD23	1:F:2861:LEU:HD21	1.72	0.71
1:C:70:SER:OG	1:C:142:ARG:NH2	2.23	0.71
1:E:1400:PRO:HD2	1:E:1416:VAL:HG22	1.72	0.71
1:A:1237:ARG:NH1	1:B:95:PRO:HB2	2.05	0.71
1:D:2103:TRP:CG	1:D:2104:GLN:N	2.58	0.71
1:D:2268:GLN:OE1	1:D:2319:ARG:NH1	2.23	0.71
1:F:1400:PRO:HD2	1:F:1416:VAL:HG22	1.72	0.71
1:A:1218:THR:CG2	1:A:1441:GLN:OE1	2.38	0.71
1:B:1390:PHE:HA	1:D:2282:ASP:HB3	1.72	0.71
1:B:2282:ASP:HB3	1:D:1390:PHE:HA	1.72	0.71
1:C:1253:ARG:HH11	1:C:1253:ARG:HG3	1.54	0.71
1:A:95:PRO:HB2	1:C:1237:ARG:NH1	2.05	0.71
1:A:2743:ALA:HB1	1:A:2940:VAL:HG23	1.73	0.71
1:B:1237:ARG:NH1	1:C:95:PRO:HB2	2.05	0.71
1:C:1400:PRO:HD2	1:C:1416:VAL:HG22	1.72	0.71
1:C:2282:ASP:HB3	1:F:1390:PHE:HA	1.72	0.71
1:E:580:ARG:HD2	1:E:614:GLY:HA3	1.73	0.71
1:F:2215:THR:HB	1:F:2229:LYS:HB2	1.73	0.71
1:F:2743:ALA:HB1	1:F:2940:VAL:HG23	1.73	0.71
1:A:1507:GLN:O	1:A:1562:ARG:NH1	2.24	0.70
1:C:2861:LEU:HD21	1:D:3075:LEU:HD23	1.72	0.70
1:D:70:SER:OG	1:D:142:ARG:NH2	2.23	0.70
1:D:580:ARG:HD2	1:D:614:GLY:HA3	1.73	0.70
1:E:1237:ARG:NH1	1:F:95:PRO:HB2	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1634:ARG:HH11	1:E:1639:ALA:H	1.39	0.70
1:E:2268:GLN:OE1	1:E:2319:ARG:NH1	2.23	0.70
1:E:2743:ALA:HB1	1:E:2940:VAL:HG23	1.73	0.70
1:B:1634:ARG:HH11	1:B:1639:ALA:H	1.39	0.70
1:C:580:ARG:HD2	1:C:614:GLY:HA3	1.72	0.70
1:D:1634:ARG:HH11	1:D:1639:ALA:H	1.39	0.70
1:E:1507:GLN:O	1:E:1562:ARG:NH1	2.24	0.70
1:F:2998:GLY:N	1:F:3002:VAL:O	2.23	0.70
1:A:974:THR:HG21	1:A:977:GLN:HB3	1.74	0.70
1:A:2861:LEU:HD21	1:F:3075:LEU:HD23	1.72	0.70
1:D:1003:HIS:CG	1:D:1004:VAL:N	2.53	0.70
1:D:1507:GLN:O	1:D:1562:ARG:NH1	2.24	0.70
1:B:2215:THR:HB	1:B:2229:LYS:HB2	1.74	0.70
1:B:2558:LEU:HG	1:B:2612:PRO:HA	1.73	0.70
1:B:3075:LEU:HD23	1:E:2861:LEU:HD21	1.72	0.70
1:C:1390:PHE:HA	1:F:2282:ASP:HB3	1.72	0.70
1:F:2558:LEU:HG	1:F:2612:PRO:HA	1.73	0.70
1:B:1507:GLN:O	1:B:1562:ARG:NH1	2.24	0.70
1:C:1507:GLN:O	1:C:1562:ARG:NH1	2.24	0.70
1:C:2860:ALA:HB3	1:C:2906:LEU:HD21	1.73	0.70
1:D:936:ARG:HB3	1:D:941:ARG:HB3	1.72	0.70
1:A:2103:TRP:CG	1:A:2104:GLN:N	2.58	0.70
1:D:1177:ARG:HB2	1:D:1184:LEU:HD23	1.74	0.70
1:E:2860:ALA:HB3	1:E:2906:LEU:HD21	1.73	0.70
1:A:580:ARG:HD2	1:A:614:GLY:HA3	1.73	0.70
1:A:2215:THR:HB	1:A:2229:LYS:HB2	1.74	0.70
1:C:1634:ARG:HH11	1:C:1639:ALA:H	1.39	0.70
1:D:2860:ALA:HB3	1:D:2906:LEU:HD21	1.73	0.70
1:F:137:VAL:HG22	1:F:354:LEU:HD13	1.74	0.70
1:A:2282:ASP:HB3	1:E:1390:PHE:HA	1.72	0.70
1:B:1177:ARG:HB2	1:B:1184:LEU:HD23	1.74	0.70
1:B:2743:ALA:HB1	1:B:2940:VAL:HG23	1.73	0.70
1:E:2558:LEU:HG	1:E:2612:PRO:HA	1.74	0.70
1:F:580:ARG:HD2	1:F:614:GLY:HA3	1.72	0.70
1:F:2860:ALA:HB3	1:F:2906:LEU:HD21	1.73	0.70
1:A:1634:ARG:HH11	1:A:1639:ALA:H	1.39	0.70
1:B:137:VAL:HG22	1:B:354:LEU:HD13	1.74	0.70
1:C:137:VAL:HG22	1:C:354:LEU:HD13	1.74	0.70
1:E:137:VAL:HG22	1:E:354:LEU:HD13	1.74	0.70
1:A:2860:ALA:HB3	1:A:2906:LEU:HD21	1.73	0.69
1:C:2215:THR:HB	1:C:2229:LYS:HB2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2558:LEU:HG	1:C:2612:PRO:HA	1.73	0.69
1:E:1724:TYR:OH	1:F:267:GLU:OE2	2.07	0.69
1:F:1012:GLY:O	1:F:1013:THR:CG2	2.41	0.69
1:F:1507:GLN:O	1:F:1562:ARG:NH1	2.24	0.69
1:A:2558:LEU:HG	1:A:2612:PRO:HA	1.73	0.69
1:E:1035:VAL:HG12	1:E:1037:ASP:H	1.57	0.69
1:F:1177:ARG:HB2	1:F:1184:LEU:HD23	1.74	0.69
1:A:1003:HIS:CG	1:A:1004:VAL:N	2.53	0.69
1:D:1046:LEU:HD13	1:D:1129:LEU:HD22	1.75	0.69
1:D:2085:LEU:O	1:D:2088:ARG:CG	2.40	0.69
1:C:2085:LEU:O	1:C:2088:ARG:CG	2.41	0.69
1:D:2215:THR:HB	1:D:2229:LYS:HB2	1.73	0.69
1:E:1012:GLY:O	1:E:1013:THR:CG2	2.41	0.69
1:F:2946:LEU:HD11	1:F:2992:GLY:HA3	1.75	0.69
1:E:974:THR:HG21	1:E:977:GLN:HB3	1.74	0.69
1:B:2085:LEU:O	1:B:2088:ARG:CG	2.41	0.69
1:B:2647:VAL:HG22	1:B:2769:ASP:HB2	1.75	0.69
1:C:2743:ALA:HB1	1:C:2940:VAL:HG23	1.73	0.69
1:D:137:VAL:HG22	1:D:354:LEU:HD13	1.74	0.69
1:D:2946:LEU:HD11	1:D:2992:GLY:HA3	1.75	0.69
1:F:1634:ARG:HH11	1:F:1639:ALA:H	1.39	0.69
1:B:580:ARG:HD2	1:B:614:GLY:HA3	1.73	0.69
1:C:1177:ARG:HB2	1:C:1184:LEU:HD23	1.74	0.69
1:F:974:THR:HG21	1:F:977:GLN:HB3	1.74	0.69
1:F:2085:LEU:O	1:F:2088:ARG:CG	2.40	0.69
1:A:137:VAL:HG22	1:A:354:LEU:HD13	1.74	0.69
1:A:1035:VAL:HG12	1:A:1037:ASP:H	1.57	0.69
1:A:2909:ARG:HB3	1:F:3075:LEU:HD21	1.75	0.69
1:C:1035:VAL:HG12	1:C:1037:ASP:H	1.57	0.69
1:C:1046:LEU:HD13	1:C:1129:LEU:HD22	1.75	0.69
1:C:2103:TRP:CG	1:C:2104:GLN:N	2.58	0.69
1:D:2558:LEU:HG	1:D:2612:PRO:HA	1.73	0.69
1:D:2647:VAL:HG22	1:D:2769:ASP:HB2	1.75	0.69
1:E:2215:THR:HB	1:E:2229:LYS:HB2	1.73	0.69
1:A:1012:GLY:O	1:A:1013:THR:CG2	2.41	0.68
1:A:2702:GLY:HA3	1:F:2557:LEU:HG	1.76	0.68
1:B:1035:VAL:HG12	1:B:1037:ASP:H	1.57	0.68
1:C:2647:VAL:HG22	1:C:2769:ASP:HB2	1.75	0.68
1:E:1046:LEU:HD13	1:E:1129:LEU:HD22	1.75	0.68
1:F:1046:LEU:HD13	1:F:1129:LEU:HD22	1.75	0.68
1:C:974:THR:HG21	1:C:977:GLN:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1046:LEU:HD13	1:A:1129:LEU:HD22	1.75	0.68
1:A:2946:LEU:HD11	1:A:2992:GLY:HA3	1.75	0.68
1:B:2946:LEU:HD11	1:B:2992:GLY:HA3	1.75	0.68
1:C:2909:ARG:HB3	1:D:3075:LEU:HD21	1.76	0.68
1:D:1035:VAL:HG12	1:D:1037:ASP:H	1.57	0.68
1:D:2743:ALA:HB1	1:D:2940:VAL:HG23	1.73	0.68
1:C:269:GLU:HB3	1:C:282:VAL:HA	1.75	0.68
1:D:974:THR:HG21	1:D:977:GLN:HB3	1.74	0.68
1:E:340:ILE:HD13	1:E:364:THR:HG21	1.75	0.68
1:B:511:ARG:HD3	1:B:543:GLY:HA3	1.76	0.68
1:D:340:ILE:HD13	1:D:364:THR:HG21	1.75	0.68
1:D:1008:VAL:HG22	1:D:1019:PHE:HB3	1.76	0.68
1:B:1046:LEU:HD13	1:B:1129:LEU:HD22	1.75	0.68
1:B:3075:LEU:HD21	1:E:2909:ARG:HB3	1.75	0.68
1:E:1177:ARG:HB2	1:E:1184:LEU:HD23	1.74	0.68
1:F:2647:VAL:HG22	1:F:2769:ASP:HB2	1.75	0.68
1:A:340:ILE:HD13	1:A:364:THR:HG21	1.75	0.68
1:A:1177:ARG:HB2	1:A:1184:LEU:HD23	1.74	0.68
1:A:2085:LEU:O	1:A:2088:ARG:CG	2.41	0.68
1:B:1002:GLN:O	1:B:1003:HIS:CG	2.47	0.68
1:B:1164:THR:N	1:B:1167:GLY:O	2.25	0.68
1:C:1008:VAL:HG22	1:C:1019:PHE:HB3	1.76	0.68
1:C:1012:GLY:O	1:C:1013:THR:CG2	2.41	0.68
1:C:2702:GLY:HA3	1:D:2557:LEU:HG	1.76	0.68
1:D:511:ARG:HD3	1:D:543:GLY:HA3	1.76	0.68
1:C:1488:VAL:HG21	1:C:1580:PRO:HD2	1.76	0.68
1:D:269:GLU:HB3	1:D:282:VAL:HA	1.75	0.68
1:E:2085:LEU:O	1:E:2088:ARG:CG	2.41	0.68
1:B:269:GLU:HB3	1:B:282:VAL:HA	1.75	0.68
1:C:1164:THR:N	1:C:1167:GLY:O	2.25	0.68
1:C:2557:LEU:HG	1:D:2702:GLY:HA3	1.76	0.68
1:F:1035:VAL:HG12	1:F:1037:ASP:H	1.57	0.68
1:B:1012:GLY:O	1:B:1013:THR:CG2	2.41	0.68
1:B:2557:LEU:HG	1:E:2702:GLY:HA3	1.76	0.68
1:B:2860:ALA:HB3	1:B:2906:LEU:HD21	1.73	0.68
1:D:1002:GLN:O	1:D:1003:HIS:CG	2.47	0.68
1:E:269:GLU:HB3	1:E:282:VAL:HA	1.75	0.68
1:A:2126:ALA:O	1:A:2129:PRO:CG	2.43	0.67
1:A:2647:VAL:HG22	1:A:2769:ASP:HB2	1.75	0.67
1:C:1002:GLN:O	1:C:1003:HIS:CG	2.47	0.67
1:C:2946:LEU:HD11	1:C:2992:GLY:HA3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1008:VAL:HG22	1:E:1019:PHE:HB3	1.76	0.67
1:E:2946:LEU:HD11	1:E:2992:GLY:HA3	1.75	0.67
1:B:340:ILE:HD13	1:B:364:THR:HG21	1.75	0.67
1:C:340:ILE:HD13	1:C:364:THR:HG21	1.75	0.67
1:B:2112:ARG:N	1:B:2115:HIS:CG	2.57	0.67
1:E:931:VAL:CG1	1:E:933:VAL:HG22	2.25	0.67
1:E:2112:ARG:N	1:E:2115:HIS:CG	2.57	0.67
1:F:1412:HIS:ND1	1:F:1415:GLY:O	2.26	0.67
1:F:2081:GLN:O	1:F:2084:GLN:CG	2.43	0.67
1:A:511:ARG:HD3	1:A:543:GLY:HA3	1.76	0.67
1:B:931:VAL:CG1	1:B:933:VAL:HG22	2.25	0.67
1:B:974:THR:HG21	1:B:977:GLN:HB3	1.74	0.67
1:B:2126:ALA:O	1:B:2129:PRO:CG	2.43	0.67
1:B:2909:ARG:HB3	1:E:3075:LEU:HD21	1.76	0.67
1:D:1164:THR:N	1:D:1167:GLY:O	2.25	0.67
1:D:1488:VAL:HG21	1:D:1580:PRO:HD2	1.76	0.67
1:E:2094:HIS:CG	1:E:2096:VAL:CG2	2.75	0.67
1:F:1164:THR:N	1:F:1167:GLY:O	2.25	0.67
1:A:792:ALA:HA	1:A:799:PHE:HE2	1.60	0.67
1:C:2126:ALA:O	1:C:2129:PRO:CG	2.43	0.67
1:D:931:VAL:CG2	1:D:933:VAL:HG12	2.25	0.67
1:E:1002:GLN:O	1:E:1003:HIS:CG	2.47	0.67
1:E:2647:VAL:HG22	1:E:2769:ASP:HB2	1.75	0.67
1:F:792:ALA:HA	1:F:799:PHE:HE2	1.60	0.67
1:F:1002:GLN:O	1:F:1003:HIS:CG	2.47	0.67
1:F:1008:VAL:HG22	1:F:1019:PHE:HB3	1.76	0.67
1:C:2081:GLN:O	1:C:2084:GLN:CG	2.43	0.67
1:D:2112:ARG:N	1:D:2115:HIS:CG	2.57	0.67
1:D:2126:ALA:O	1:D:2129:PRO:CG	2.43	0.67
1:E:2081:GLN:O	1:E:2084:GLN:CG	2.43	0.67
1:B:1488:VAL:HG12	1:B:1490:ARG:NH1	2.10	0.67
1:C:931:VAL:CG1	1:C:933:VAL:HG12	2.24	0.67
1:D:3080:ARG:HH11	1:D:3080:ARG:CG	2.07	0.67
1:A:1008:VAL:HG22	1:A:1019:PHE:HB3	1.76	0.67
1:A:2081:GLN:O	1:A:2084:GLN:CG	2.43	0.67
1:C:683:GLY:HA2	1:C:700:ASN:HB2	1.77	0.67
1:C:792:ALA:HA	1:C:799:PHE:HE2	1.60	0.67
1:D:1012:GLY:O	1:D:1013:THR:CG2	2.41	0.67
1:F:269:GLU:HB3	1:F:282:VAL:HA	1.75	0.67
1:A:511:ARG:HB2	1:A:540:ASN:HB2	1.78	0.66
1:B:3080:ARG:HH11	1:B:3080:ARG:CG	2.07	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1358:GLN:HG2	1:C:1423:THR:HG23	1.78	0.66
1:E:1164:THR:N	1:E:1167:GLY:O	2.25	0.66
1:E:2126:ALA:O	1:E:2129:PRO:CG	2.43	0.66
1:F:511:ARG:HB2	1:F:540:ASN:HB2	1.77	0.66
1:F:511:ARG:HD3	1:F:543:GLY:HA3	1.76	0.66
1:A:1167:GLY:HA3	1:A:1195:ARG:HA	1.78	0.66
1:B:1412:HIS:ND1	1:B:1415:GLY:O	2.26	0.66
1:B:2081:GLN:O	1:B:2084:GLN:CG	2.43	0.66
1:D:1488:VAL:HG12	1:D:1490:ARG:NH1	2.10	0.66
1:D:2081:GLN:O	1:D:2084:GLN:CG	2.43	0.66
1:E:1358:GLN:HG2	1:E:1423:THR:HG23	1.78	0.66
1:B:666:VAL:HG21	1:B:904:VAL:HB	1.78	0.66
1:D:683:GLY:HA2	1:D:700:ASN:HB2	1.78	0.66
1:D:1167:GLY:HA3	1:D:1195:ARG:HA	1.78	0.66
1:D:1168:ARG:HB2	1:D:1197:ARG:HB2	1.77	0.66
1:A:269:GLU:HB3	1:A:282:VAL:HA	1.75	0.66
1:A:1002:GLN:O	1:A:1003:HIS:CG	2.47	0.66
1:B:511:ARG:HB2	1:B:540:ASN:HB2	1.77	0.66
1:C:1168:ARG:HB2	1:C:1197:ARG:HB2	1.77	0.66
1:F:1488:VAL:HG12	1:F:1490:ARG:NH1	2.10	0.66
1:F:1488:VAL:HG21	1:F:1580:PRO:HD2	1.77	0.66
1:A:1412:HIS:ND1	1:A:1415:GLY:O	2.25	0.66
1:A:1488:VAL:HG21	1:A:1580:PRO:HD2	1.76	0.66
1:B:1008:VAL:HG12	1:B:1019:PHE:HB3	1.76	0.66
1:D:792:ALA:HA	1:D:799:PHE:HE2	1.60	0.66
1:E:666:VAL:HG21	1:E:904:VAL:HB	1.78	0.66
1:E:1132:LEU:HD11	1:E:1192:PHE:HB3	1.78	0.66
1:E:1412:HIS:HD2	1:E:1413:PRO:HD2	1.61	0.66
1:F:666:VAL:HG21	1:F:904:VAL:HB	1.78	0.66
1:F:1412:HIS:HD2	1:F:1413:PRO:HD2	1.61	0.66
1:A:1084:THR:HG21	1:A:1274:ALA:HA	1.78	0.66
1:A:1132:LEU:HD11	1:A:1192:PHE:HB3	1.78	0.66
1:B:35:VAL:HG11	1:B:147:LEU:HB3	1.78	0.66
1:C:1167:GLY:HA3	1:C:1195:ARG:HA	1.78	0.66
1:C:1488:VAL:HG12	1:C:1490:ARG:NH1	2.10	0.66
1:B:1132:LEU:HD11	1:B:1192:PHE:HB3	1.78	0.66
1:C:997:GLU:O	1:C:1009:PRO:N	2.29	0.66
1:F:340:ILE:HD13	1:F:364:THR:HG21	1.75	0.66
1:A:997:GLU:O	1:A:1009:PRO:N	2.29	0.66
1:A:2679:ALA:HB3	1:A:2762:VAL:HG12	1.78	0.66
1:B:1167:GLY:HA3	1:B:1195:ARG:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1168:ARG:HB2	1:B:1197:ARG:HB2	1.77	0.66
1:C:511:ARG:HD3	1:C:543:GLY:HA3	1.76	0.66
1:D:997:GLU:O	1:D:1009:PRO:N	2.29	0.66
1:D:2012:GLY:C	1:E:2591:ARG:HH12	1.99	0.66
1:D:2591:ARG:HH12	1:F:2012:GLY:C	2.00	0.66
1:E:792:ALA:HA	1:E:799:PHE:HE2	1.60	0.66
1:E:997:GLU:O	1:E:1009:PRO:N	2.29	0.66
1:E:1167:GLY:HA3	1:E:1195:ARG:HA	1.78	0.66
1:E:2679:ALA:HB3	1:E:2762:VAL:HG12	1.78	0.66
1:A:931:VAL:CG2	1:A:933:VAL:HG22	2.25	0.66
1:C:3075:LEU:HD21	1:D:2909:ARG:HB3	1.75	0.66
1:D:35:VAL:HG11	1:D:147:LEU:HB3	1.77	0.66
1:F:931:VAL:CG2	1:F:933:VAL:HG12	2.24	0.66
1:F:2094:HIS:CG	1:F:2096:VAL:CG1	2.75	0.66
1:F:2679:ALA:HB3	1:F:2762:VAL:HG12	1.78	0.66
1:A:3075:LEU:HD21	1:F:2909:ARG:HB3	1.75	0.66
1:D:511:ARG:HB2	1:D:540:ASN:HB2	1.77	0.66
1:E:511:ARG:HB2	1:E:540:ASN:HB2	1.78	0.66
1:E:511:ARG:HD3	1:E:543:GLY:HA3	1.76	0.66
1:F:683:GLY:HA2	1:F:700:ASN:HB2	1.78	0.66
1:F:1167:GLY:HA3	1:F:1195:ARG:HA	1.78	0.66
1:F:2126:ALA:O	1:F:2129:PRO:CG	2.43	0.66
1:A:203:ASP:OD1	1:A:204:ARG:N	2.29	0.65
1:A:1358:GLN:HG2	1:A:1423:THR:HG23	1.78	0.65
1:A:2557:LEU:HG	1:F:2702:GLY:HA3	1.76	0.65
1:B:1534:ASN:HB2	1:B:1543:ALA:HB3	1.78	0.65
1:B:2679:ALA:HB3	1:B:2762:VAL:HG12	1.78	0.65
1:C:2094:HIS:CG	1:C:2096:VAL:CG2	2.75	0.65
1:C:2706:PRO:HG2	1:C:2709:ILE:HG23	1.79	0.65
1:E:1084:THR:HG21	1:E:1274:ALA:HA	1.78	0.65
1:E:2012:GLY:C	1:F:2591:ARG:HH12	2.00	0.65
1:A:1168:ARG:HB2	1:A:1197:ARG:HB2	1.77	0.65
1:C:203:ASP:OD1	1:C:204:ARG:N	2.30	0.65
1:C:1534:ASN:HB2	1:C:1543:ALA:HB3	1.79	0.65
1:D:450:ASN:HA	1:D:483:ARG:HH11	1.62	0.65
1:D:1084:THR:HG21	1:D:1274:ALA:HA	1.78	0.65
1:E:1488:VAL:HG12	1:E:1490:ARG:NH1	2.10	0.65
1:E:2706:PRO:HG2	1:E:2709:ILE:HG23	1.79	0.65
1:A:35:VAL:HG11	1:A:147:LEU:HB3	1.78	0.65
1:B:1358:GLN:HG2	1:B:1423:THR:HG23	1.78	0.65
1:C:2876:LEU:HD11	1:C:2886:ILE:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:643:ILE:HD12	1:D:915:PHE:HZ	1.62	0.65
1:D:1724:TYR:OH	1:E:267:GLU:OE2	2.08	0.65
1:A:683:GLY:HA2	1:A:700:ASN:HB2	1.77	0.65
1:A:1488:VAL:HG12	1:A:1490:ARG:NH1	2.10	0.65
1:B:2012:GLY:C	1:C:2591:ARG:HH12	1.99	0.65
1:B:2702:GLY:HA3	1:E:2557:LEU:HG	1.76	0.65
1:C:1412:HIS:HD2	1:C:1413:PRO:HD2	1.61	0.65
1:D:1358:GLN:HG2	1:D:1423:THR:HG23	1.78	0.65
1:E:2876:LEU:HD11	1:E:2886:ILE:HD11	1.79	0.65
1:A:1536:ASN:HA	1:A:1679:TRP:HB3	1.79	0.65
1:B:203:ASP:OD1	1:B:204:ARG:N	2.30	0.65
1:B:643:ILE:HD12	1:B:915:PHE:HZ	1.62	0.65
1:B:683:GLY:HA2	1:B:700:ASN:HB2	1.77	0.65
1:B:997:GLU:O	1:B:1009:PRO:N	2.29	0.65
1:C:1536:ASN:HA	1:C:1679:TRP:HB3	1.78	0.65
1:E:1488:VAL:HG21	1:E:1580:PRO:HD2	1.77	0.65
1:A:643:ILE:HD12	1:A:915:PHE:HZ	1.62	0.65
1:C:511:ARG:HB2	1:C:540:ASN:HB2	1.78	0.65
1:E:203:ASP:OD1	1:E:204:ARG:N	2.30	0.65
1:E:450:ASN:HA	1:E:483:ARG:HH11	1.62	0.65
1:A:1412:HIS:HD2	1:A:1413:PRO:HD2	1.61	0.65
1:A:2591:ARG:HH12	1:C:2012:GLY:C	1.99	0.65
1:B:2094:HIS:CG	1:B:2096:VAL:CG1	2.75	0.65
1:D:2679:ALA:HB3	1:D:2762:VAL:HG12	1.78	0.65
1:E:1168:ARG:HB2	1:E:1197:ARG:HB2	1.77	0.65
1:E:1534:ASN:HB2	1:E:1543:ALA:HB3	1.79	0.65
1:E:1536:ASN:HA	1:E:1679:TRP:HB3	1.79	0.65
1:F:56:LEU:HD22	1:F:119:LEU:HD13	1.79	0.65
1:F:997:GLU:O	1:F:1009:PRO:N	2.29	0.65
1:F:1132:LEU:HD11	1:F:1192:PHE:HB3	1.78	0.65
1:F:1358:GLN:HG2	1:F:1423:THR:HG23	1.78	0.65
1:A:929:GLU:O	1:A:930:PRO:CG	2.45	0.65
1:A:2652:ILE:HG12	1:A:2722:VAL:HG22	1.79	0.65
1:A:2876:LEU:HD11	1:A:2886:ILE:HD11	1.79	0.65
1:B:1084:THR:HG21	1:B:1274:ALA:HA	1.78	0.65
1:F:42:GLU:HB3	1:F:349:ARG:HG3	1.79	0.65
1:F:929:GLU:O	1:F:930:PRO:CG	2.45	0.65
1:F:1534:ASN:HB2	1:F:1543:ALA:HB3	1.78	0.65
1:A:1534:ASN:HB2	1:A:1543:ALA:HB3	1.79	0.65
1:A:2252:VAL:HA	1:A:2255:ARG:HE	1.62	0.65
1:C:1132:LEU:HD11	1:C:1192:PHE:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3080:ARG:HH11	1:C:3080:ARG:CG	2.07	0.65
1:D:1412:HIS:HD2	1:D:1413:PRO:HD2	1.61	0.65
1:D:2876:LEU:HD11	1:D:2886:ILE:HD11	1.79	0.65
1:F:1168:ARG:HB2	1:F:1197:ARG:HB2	1.77	0.65
1:C:666:VAL:HG21	1:C:904:VAL:HB	1.78	0.65
1:E:35:VAL:HG11	1:E:147:LEU:HB3	1.78	0.65
1:E:643:ILE:HD12	1:E:915:PHE:HZ	1.62	0.65
1:F:1084:THR:HG21	1:F:1274:ALA:HA	1.78	0.65
1:A:56:LEU:HD22	1:A:119:LEU:HD13	1.79	0.64
1:A:2012:GLY:C	1:B:2591:ARG:HH12	1.99	0.64
1:B:929:GLU:O	1:B:930:PRO:CG	2.45	0.64
1:B:1488:VAL:HG21	1:B:1580:PRO:HD2	1.77	0.64
1:C:35:VAL:HG11	1:C:147:LEU:HB3	1.78	0.64
1:D:42:GLU:HB3	1:D:349:ARG:HG3	1.79	0.64
1:D:1534:ASN:HB2	1:D:1543:ALA:HB3	1.78	0.64
1:F:450:ASN:HA	1:F:483:ARG:HH11	1.62	0.64
1:A:793:ARG:HD3	1:A:2435:LEU:CG	2.27	0.64
1:A:2706:PRO:HG2	1:A:2709:ILE:HG23	1.78	0.64
1:B:1412:HIS:HD2	1:B:1413:PRO:HD2	1.61	0.64
1:D:666:VAL:HG21	1:D:904:VAL:HB	1.78	0.64
1:D:929:GLU:O	1:D:930:PRO:CG	2.45	0.64
1:D:1132:LEU:HD11	1:D:1192:PHE:HB3	1.78	0.64
1:D:2652:ILE:HG12	1:D:2722:VAL:HG22	1.79	0.64
1:E:2252:VAL:HA	1:E:2255:ARG:HE	1.62	0.64
1:F:35:VAL:HG11	1:F:147:LEU:HB3	1.78	0.64
1:B:42:GLU:HB3	1:B:349:ARG:HG3	1.79	0.64
1:B:450:ASN:HA	1:B:483:ARG:HH11	1.62	0.64
1:B:792:ALA:HA	1:B:799:PHE:HE2	1.60	0.64
1:C:929:GLU:O	1:C:930:PRO:CG	2.45	0.64
1:C:2652:ILE:HG12	1:C:2722:VAL:HG22	1.79	0.64
1:D:793:ARG:HD3	1:D:2435:LEU:CG	2.27	0.64
1:E:2652:ILE:HG12	1:E:2722:VAL:HG22	1.79	0.64
1:A:666:VAL:HG21	1:A:904:VAL:HB	1.78	0.64
1:C:2252:VAL:HA	1:C:2255:ARG:HE	1.62	0.64
1:E:683:GLY:HA2	1:E:700:ASN:HB2	1.77	0.64
1:F:1536:ASN:HA	1:F:1679:TRP:HB3	1.78	0.64
1:A:450:ASN:HA	1:A:483:ARG:HH11	1.62	0.64
1:A:1164:THR:N	1:A:1167:GLY:O	2.25	0.64
1:A:2112:ARG:N	1:A:2115:HIS:CG	2.57	0.64
1:C:1084:THR:HG21	1:C:1274:ALA:HA	1.78	0.64
1:F:643:ILE:HD12	1:F:915:PHE:HZ	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:793:ARG:HD3	1:F:2435:LEU:CG	2.27	0.64
1:F:1003:HIS:CG	1:F:1004:VAL:N	2.53	0.64
1:D:203:ASP:OD1	1:D:204:ARG:N	2.29	0.64
1:E:929:GLU:O	1:E:930:PRO:CG	2.45	0.64
1:F:2112:ARG:N	1:F:2115:HIS:CG	2.57	0.64
1:B:793:ARG:HD3	1:B:2435:LEU:CG	2.27	0.64
1:C:56:LEU:HD22	1:C:119:LEU:HD13	1.79	0.64
1:C:793:ARG:HD3	1:C:2435:LEU:CG	2.27	0.64
1:D:2252:VAL:HA	1:D:2255:ARG:HE	1.62	0.64
1:D:2706:PRO:HG2	1:D:2709:ILE:HG23	1.79	0.64
1:F:203:ASP:OD1	1:F:204:ARG:N	2.29	0.64
1:F:2706:PRO:HG2	1:F:2709:ILE:HG23	1.79	0.64
1:F:2876:LEU:HD11	1:F:2886:ILE:HD11	1.79	0.64
1:B:2176:LEU:HG	1:B:2180:LYS:HE3	1.80	0.64
1:C:42:GLU:HB3	1:C:349:ARG:HG3	1.79	0.64
1:C:360:LEU:HD12	1:C:363:LEU:HD23	1.80	0.64
1:C:450:ASN:HA	1:C:483:ARG:HH11	1.62	0.64
1:C:2679:ALA:HB3	1:C:2762:VAL:HG12	1.78	0.64
1:D:56:LEU:HD22	1:D:119:LEU:HD13	1.79	0.64
1:D:2094:HIS:CG	1:D:2096:VAL:CG1	2.75	0.64
1:E:3080:ARG:HH11	1:E:3080:ARG:CG	2.07	0.64
1:F:2176:LEU:HG	1:F:2180:LYS:HE3	1.80	0.64
1:F:2652:ILE:HG12	1:F:2722:VAL:HG22	1.79	0.64
1:A:803:GLU:OE1	1:A:2431:THR:HG22	1.98	0.64
1:B:56:LEU:HD22	1:B:119:LEU:HD13	1.79	0.64
1:B:2876:LEU:HD11	1:B:2886:ILE:HD11	1.79	0.64
1:E:56:LEU:HD22	1:E:119:LEU:HD13	1.79	0.64
1:E:500:GLN:O	1:E:504:LYS:N	2.24	0.64
1:E:803:GLU:OE1	1:E:2431:THR:HG22	1.98	0.64
1:A:42:GLU:HB3	1:A:349:ARG:HG3	1.79	0.63
1:B:1536:ASN:HA	1:B:1679:TRP:HB3	1.78	0.63
1:D:1536:ASN:HA	1:D:1679:TRP:HB3	1.79	0.63
1:B:2252:VAL:HA	1:B:2255:ARG:HE	1.62	0.63
1:C:803:GLU:OE1	1:C:2431:THR:HG22	1.98	0.63
1:A:974:THR:CG2	1:A:977:GLN:HB3	2.29	0.63
1:B:1072:TRP:NE1	1:B:1077:VAL:HG22	2.14	0.63
1:C:643:ILE:HD12	1:C:915:PHE:HZ	1.62	0.63
1:E:2948:GLN:HG2	1:E:2951:ARG:HH21	1.64	0.63
1:F:2297:ARG:H	1:F:2297:ARG:HD3	1.64	0.63
1:A:3073:MET:O	1:F:2865:ARG:NH2	2.32	0.63
1:B:2652:ILE:HG12	1:B:2722:VAL:HG22	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2865:ARG:NH2	1:E:3073:MET:O	2.32	0.63
1:C:2173:ASP:OD2	1:C:2799:LYS:NZ	2.32	0.63
1:E:238:SER:OG	1:E:249:THR:OG1	2.15	0.63
1:E:793:ARG:HD3	1:E:2435:LEU:CG	2.27	0.63
1:E:1376:VAL:HA	1:E:1470:LEU:HD13	1.81	0.63
1:F:1376:VAL:HA	1:F:1470:LEU:HD13	1.81	0.63
1:A:892:ILE:HG22	2:A:4000:FMN:HM82	1.80	0.63
1:A:1417:LEU:O	1:A:1423:THR:OG1	2.14	0.63
1:A:2094:HIS:CG	1:A:2096:VAL:CG1	2.75	0.63
1:A:2865:ARG:NH2	1:F:3073:MET:O	2.32	0.63
1:B:3073:MET:O	1:E:2865:ARG:NH2	2.32	0.63
1:E:1417:LEU:O	1:E:1423:THR:OG1	2.14	0.63
1:A:1622:PRO:HD3	1:A:1685:LEU:HD11	1.81	0.63
1:B:2173:ASP:OD2	1:B:2799:LYS:NZ	2.32	0.63
1:B:2706:PRO:HG2	1:B:2709:ILE:HG23	1.79	0.63
1:C:1412:HIS:ND1	1:C:1415:GLY:O	2.26	0.63
1:E:585:HIS:CD2	1:E:586:SER:H	2.17	0.63
1:E:1622:PRO:HD3	1:E:1685:LEU:HD11	1.81	0.63
1:A:939:ALA:O	1:A:940:ARG:CG	2.47	0.63
1:B:585:HIS:CD2	1:B:586:SER:H	2.17	0.63
1:B:664:LEU:HD13	1:B:701:ALA:HB1	1.81	0.63
1:C:2865:ARG:NH2	1:D:3073:MET:O	2.32	0.63
1:E:974:THR:CG2	1:E:977:GLN:HB3	2.29	0.63
1:E:1315:ARG:HH21	1:E:1323:GLU:HG2	1.64	0.63
1:F:750:LEU:HD12	1:F:827:LEU:HD11	1.81	0.63
1:F:892:ILE:HG22	2:F:4000:FMN:HM82	1.80	0.63
1:F:1315:ARG:HH21	1:F:1323:GLU:HG2	1.64	0.63
1:A:585:HIS:CD2	1:A:586:SER:H	2.17	0.63
1:A:2752:ASP:HB3	1:F:2752:ASP:HB3	1.81	0.63
1:B:750:LEU:HD12	1:B:827:LEU:HD11	1.81	0.63
1:B:1315:ARG:HH21	1:B:1323:GLU:HG2	1.64	0.63
1:B:2092:THR:HA	1:B:2189:PHE:HB2	1.81	0.63
1:B:2948:GLN:HG2	1:B:2951:ARG:HH21	1.64	0.63
1:C:974:THR:CG2	1:C:977:GLN:HB3	2.29	0.63
1:C:2112:ARG:N	1:C:2115:HIS:CG	2.57	0.63
1:D:939:ALA:O	1:D:940:ARG:CG	2.47	0.63
1:D:974:THR:CG2	1:D:977:GLN:HB3	2.29	0.63
1:D:1072:TRP:NE1	1:D:1077:VAL:HG22	2.14	0.63
1:D:2176:LEU:HG	1:D:2180:LYS:HE3	1.80	0.63
1:E:892:ILE:HG22	2:E:4000:FMN:HM82	1.80	0.63
1:E:2096:VAL:HG23	1:E:2097:ALA:N	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:585:HIS:CD2	1:F:586:SER:H	2.17	0.63
1:F:2047:THR:OG1	1:F:2205:ASP:OD2	2.17	0.63
1:F:2092:THR:HA	1:F:2189:PHE:HB2	1.81	0.63
1:A:2092:THR:HA	1:A:2189:PHE:HB2	1.81	0.63
1:B:974:THR:CG2	1:B:977:GLN:HB3	2.29	0.63
1:C:3073:MET:O	1:D:2865:ARG:NH2	2.32	0.63
1:D:750:LEU:HD12	1:D:827:LEU:HD11	1.81	0.63
1:D:2173:ASP:OD2	1:D:2799:LYS:NZ	2.32	0.63
1:D:2948:GLN:HG2	1:D:2951:ARG:HH21	1.64	0.63
1:E:360:LEU:HD12	1:E:363:LEU:HD23	1.80	0.63
1:E:2092:THR:HA	1:E:2189:PHE:HB2	1.81	0.63
1:F:803:GLU:OE1	1:F:2431:THR:HG22	1.98	0.63
1:F:974:THR:CG2	1:F:977:GLN:HB3	2.29	0.63
1:F:1095:LEU:HD12	1:F:1096:THR:H	1.64	0.63
1:F:2252:VAL:HA	1:F:2255:ARG:HE	1.62	0.63
1:A:2086:SER:O	1:A:2089:PHE:CG	2.52	0.62
1:A:2092:THR:HG23	1:A:2092:THR:O	1.99	0.62
1:A:2297:ARG:H	1:A:2297:ARG:HD3	1.64	0.62
1:B:803:GLU:OE1	1:B:2431:THR:HG22	1.98	0.62
1:B:1702:GLU:OE2	1:B:1711:VAL:HG13	1.99	0.62
1:B:2047:THR:OG1	1:B:2205:ASP:OD2	2.17	0.62
1:B:2086:SER:O	1:B:2089:PHE:CG	2.52	0.62
1:C:1376:VAL:HA	1:C:1470:LEU:HD13	1.81	0.62
1:D:2297:ARG:HD3	1:D:2297:ARG:H	1.64	0.62
1:E:939:ALA:O	1:E:940:ARG:CG	2.47	0.62
1:E:1702:GLU:OE2	1:E:1711:VAL:HG13	1.99	0.62
1:E:2176:LEU:HG	1:E:2180:LYS:HE3	1.80	0.62
1:A:2173:ASP:OD2	1:A:2799:LYS:NZ	2.32	0.62
1:B:939:ALA:O	1:B:940:ARG:CG	2.47	0.62
1:C:939:ALA:O	1:C:940:ARG:CG	2.47	0.62
1:C:1072:TRP:NE1	1:C:1077:VAL:HG22	2.14	0.62
1:C:1095:LEU:HD12	1:C:1096:THR:H	1.64	0.62
1:D:500:GLN:O	1:D:504:LYS:N	2.24	0.62
1:D:1376:VAL:HA	1:D:1470:LEU:HD13	1.81	0.62
1:D:2096:VAL:HG13	1:D:2097:ALA:N	2.14	0.62
1:E:1072:TRP:NE1	1:E:1077:VAL:HG22	2.14	0.62
1:E:2297:ARG:HD3	1:E:2297:ARG:H	1.64	0.62
1:A:1072:TRP:NE1	1:A:1077:VAL:HG22	2.14	0.62
1:B:2092:THR:O	1:B:2092:THR:HG23	1.99	0.62
1:C:585:HIS:CD2	1:C:586:SER:H	2.17	0.62
1:C:924:LEU:O	1:C:929:GLU:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1315:ARG:HH21	1:C:1323:GLU:HG2	1.64	0.62
1:D:1095:LEU:HD12	1:D:1096:THR:H	1.64	0.62
1:D:1622:PRO:HD3	1:D:1685:LEU:HD11	1.81	0.62
1:E:42:GLU:HB3	1:E:349:ARG:HG3	1.79	0.62
1:E:932:GLU:O	1:E:936:ARG:CG	2.48	0.62
1:F:2096:VAL:HG13	1:F:2097:ALA:N	2.14	0.62
1:B:1095:LEU:HD12	1:B:1096:THR:H	1.64	0.62
1:B:1376:VAL:HA	1:B:1470:LEU:HD13	1.81	0.62
1:B:1417:LEU:O	1:B:1423:THR:OG1	2.14	0.62
1:C:2092:THR:HG23	1:C:2092:THR:O	1.99	0.62
1:D:1417:LEU:O	1:D:1423:THR:OG1	2.14	0.62
1:F:939:ALA:O	1:F:940:ARG:CG	2.47	0.62
1:F:2086:SER:O	1:F:2089:PHE:CG	2.52	0.62
1:A:1315:ARG:HH21	1:A:1323:GLU:HG2	1.64	0.62
1:A:3080:ARG:HH11	1:A:3080:ARG:CG	2.07	0.62
1:B:360:LEU:HD12	1:B:363:LEU:HD23	1.80	0.62
1:B:892:ILE:HG22	2:B:4000:FMN:HM82	1.80	0.62
1:B:1431:ALA:HB3	1:B:1459:THR:HG21	1.82	0.62
1:C:932:GLU:O	1:C:936:ARG:CG	2.48	0.62
1:C:1622:PRO:HD3	1:C:1685:LEU:HD11	1.81	0.62
1:D:2047:THR:OG1	1:D:2205:ASP:OD2	2.17	0.62
1:D:2086:SER:O	1:D:2089:PHE:CG	2.52	0.62
1:E:664:LEU:HD13	1:E:701:ALA:HB1	1.81	0.62
1:F:1431:ALA:HB3	1:F:1459:THR:HG21	1.82	0.62
1:A:1725:SER:HB3	1:B:260:LEU:HD13	1.82	0.62
1:B:932:GLU:O	1:B:936:ARG:CG	2.47	0.62
1:B:1725:SER:HB3	1:C:260:LEU:HD13	1.82	0.62
1:C:2047:THR:OG1	1:C:2205:ASP:OD2	2.17	0.62
1:D:932:GLU:O	1:D:936:ARG:CG	2.47	0.62
1:F:932:GLU:O	1:F:936:ARG:CG	2.48	0.62
1:F:1702:GLU:OE2	1:F:1711:VAL:HG13	1.99	0.62
1:F:2765:GLY:HA2	1:F:2940:VAL:HG21	1.82	0.62
1:A:971:ALA:O	1:A:974:THR:CG2	2.48	0.62
1:A:1431:ALA:HB3	1:A:1459:THR:HG21	1.82	0.62
1:B:2297:ARG:HD3	1:B:2297:ARG:H	1.64	0.62
1:D:803:GLU:OE1	1:D:2431:THR:HG22	1.98	0.62
1:E:2092:THR:HG23	1:E:2092:THR:O	1.99	0.62
1:F:971:ALA:O	1:F:974:THR:CG2	2.48	0.62
1:A:2047:THR:OG1	1:A:2205:ASP:OD2	2.17	0.62
1:C:2237:LEU:HB2	1:C:2287:LEU:HD11	1.82	0.62
1:D:585:HIS:CD2	1:D:586:SER:H	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:892:ILE:HG22	2:D:4000:FMN:HM82	1.80	0.62
1:D:1315:ARG:HH21	1:D:1323:GLU:HG2	1.64	0.62
1:F:360:LEU:HD12	1:F:363:LEU:HD23	1.80	0.62
1:A:932:GLU:O	1:A:936:ARG:CG	2.48	0.62
1:A:2096:VAL:HG13	1:A:2097:ALA:N	2.14	0.62
1:B:2558:LEU:HD21	1:E:2610:ARG:HB2	1.82	0.62
1:B:2610:ARG:HB2	1:E:2558:LEU:HD21	1.82	0.62
1:B:2765:GLY:HA2	1:B:2940:VAL:HG21	1.81	0.62
1:D:664:LEU:HD13	1:D:701:ALA:HB1	1.81	0.62
1:E:1013:THR:CG2	1:E:1014:TRP:H	1.96	0.62
1:E:1695:LEU:CD2	1:F:257:ARG:HH12	2.13	0.62
1:E:2047:THR:OG1	1:E:2205:ASP:OD2	2.17	0.62
1:F:1072:TRP:NE1	1:F:1077:VAL:HG22	2.14	0.62
1:A:1095:LEU:HD12	1:A:1096:THR:H	1.64	0.62
1:A:1702:GLU:OE2	1:A:1711:VAL:HG13	1.99	0.62
1:A:2176:LEU:HG	1:A:2180:LYS:HE3	1.80	0.62
1:B:1622:PRO:HD3	1:B:1685:LEU:HD11	1.81	0.62
1:B:2096:VAL:HG13	1:B:2097:ALA:N	2.14	0.62
1:C:892:ILE:HG22	2:C:4000:FMN:HM82	1.80	0.62
1:C:971:ALA:O	1:C:974:THR:CG2	2.48	0.62
1:C:2752:ASP:HB3	1:D:2752:ASP:HB3	1.81	0.62
1:D:971:ALA:O	1:D:974:THR:CG2	2.48	0.62
1:D:2092:THR:HA	1:D:2189:PHE:HB2	1.81	0.62
1:D:3058:ARG:HB2	1:D:3089:LEU:HB2	1.82	0.62
1:F:1353:PRO:HG3	1:F:1702:GLU:OE2	2.00	0.62
1:F:2092:THR:HG23	1:F:2092:THR:O	1.99	0.62
1:A:34:LEU:H	1:A:393:VAL:HG21	1.65	0.61
1:A:360:LEU:HD12	1:A:363:LEU:HD23	1.80	0.61
1:A:1695:LEU:CD2	1:B:257:ARG:HH12	2.13	0.61
1:C:203:ASP:O	1:C:205:PRO:HD3	2.00	0.61
1:D:1412:HIS:ND1	1:D:1415:GLY:O	2.26	0.61
1:D:2237:LEU:HB2	1:D:2287:LEU:HD11	1.82	0.61
1:E:1095:LEU:HD12	1:E:1096:THR:H	1.64	0.61
1:F:34:LEU:O	1:F:38:LEU:N	2.25	0.61
1:F:2237:LEU:HB2	1:F:2287:LEU:HD11	1.82	0.61
1:A:1353:PRO:HG3	1:A:1702:GLU:OE2	2.00	0.61
1:B:34:LEU:H	1:B:393:VAL:HG21	1.65	0.61
1:B:203:ASP:O	1:B:205:PRO:HD3	2.01	0.61
1:B:680:ALA:HA	1:B:685:ALA:HB2	1.83	0.61
1:B:3058:ARG:HB2	1:B:3089:LEU:HB2	1.82	0.61
1:C:238:SER:OG	1:C:249:THR:OG1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:680:ALA:HA	1:C:685:ALA:HB2	1.83	0.61
1:C:1417:LEU:O	1:C:1423:THR:OG1	2.14	0.61
1:C:2086:SER:O	1:C:2089:PHE:CG	2.52	0.61
1:D:164:ALA:HA	1:D:178:LEU:HD13	1.82	0.61
1:D:360:LEU:HD12	1:D:363:LEU:HD23	1.80	0.61
1:D:1725:SER:HB3	1:E:260:LEU:HD13	1.82	0.61
1:E:2086:SER:O	1:E:2089:PHE:CG	2.53	0.61
1:E:2173:ASP:OD2	1:E:2799:LYS:NZ	2.32	0.61
1:E:2765:GLY:HA2	1:E:2940:VAL:HG21	1.82	0.61
1:F:34:LEU:H	1:F:393:VAL:HG21	1.65	0.61
1:F:924:LEU:O	1:F:929:GLU:N	2.30	0.61
1:F:1622:PRO:HD3	1:F:1685:LEU:HD11	1.81	0.61
1:A:257:ARG:HH12	1:C:1695:LEU:CD2	2.13	0.61
1:B:2237:LEU:HB2	1:B:2287:LEU:HD11	1.82	0.61
1:C:409:LYS:HD2	1:C:933:VAL:HA	1.82	0.61
1:C:2765:GLY:HA2	1:C:2940:VAL:HG21	1.82	0.61
1:F:203:ASP:O	1:F:205:PRO:HD3	2.00	0.61
1:F:2173:ASP:OD2	1:F:2799:LYS:NZ	2.32	0.61
1:F:2948:GLN:HG2	1:F:2951:ARG:HH21	1.64	0.61
1:A:260:LEU:HD13	1:C:1725:SER:HB3	1.82	0.61
1:A:750:LEU:HD12	1:A:827:LEU:HD11	1.81	0.61
1:A:2469:LEU:HD11	1:A:2653:VAL:HB	1.83	0.61
1:B:1695:LEU:CD2	1:C:257:ARG:HH12	2.13	0.61
1:C:34:LEU:O	1:C:38:LEU:N	2.25	0.61
1:C:2096:VAL:HG23	1:C:2097:ALA:N	2.14	0.61
1:C:2469:LEU:HD11	1:C:2653:VAL:HB	1.82	0.61
1:C:2948:GLN:HG2	1:C:2951:ARG:HH21	1.64	0.61
1:D:106:ALA:HB1	1:D:112:PRO:HB2	1.82	0.61
1:D:260:LEU:HD13	1:F:1725:SER:HB3	1.82	0.61
1:D:409:LYS:HD2	1:D:933:VAL:HA	1.82	0.61
1:D:1353:PRO:HG3	1:D:1702:GLU:OE2	2.00	0.61
1:A:664:LEU:HD13	1:A:701:ALA:HB1	1.81	0.61
1:C:511:ARG:HH11	1:C:543:GLY:HA3	1.65	0.61
1:C:1702:GLU:OE2	1:C:1711:VAL:HG13	1.99	0.61
1:C:2092:THR:HA	1:C:2189:PHE:HB2	1.81	0.61
1:C:2558:LEU:HD21	1:D:2610:ARG:HB2	1.82	0.61
1:D:2765:GLY:HA2	1:D:2940:VAL:HG21	1.82	0.61
1:E:1353:PRO:HG3	1:E:1702:GLU:OE2	2.00	0.61
1:A:438:THR:HA	1:A:880:HIS:HE1	1.66	0.61
1:A:2948:GLN:HG2	1:A:2951:ARG:HH21	1.64	0.61
1:B:438:THR:HA	1:B:880:HIS:HE1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:971:ALA:O	1:B:974:THR:CG2	2.48	0.61
1:B:2334:HIS:HD2	1:B:2391:LYS:HG3	1.66	0.61
1:C:106:ALA:HB1	1:C:112:PRO:HB2	1.82	0.61
1:C:1353:PRO:HG3	1:C:1702:GLU:OE2	2.00	0.61
1:C:2297:ARG:H	1:C:2297:ARG:HD3	1.64	0.61
1:C:2372:MET:HB3	1:C:2394:LEU:HD22	1.83	0.61
1:D:257:ARG:HH12	1:F:1695:LEU:CD2	2.13	0.61
1:D:1702:GLU:OE2	1:D:1711:VAL:HG13	1.99	0.61
1:D:2212:TRP:HA	1:D:2229:LYS:HD3	1.83	0.61
1:A:511:ARG:HH11	1:A:543:GLY:HA3	1.66	0.61
1:B:511:ARG:HH11	1:B:543:GLY:HA3	1.65	0.61
1:C:438:THR:HA	1:C:880:HIS:HE1	1.66	0.61
1:C:3058:ARG:HB2	1:C:3089:LEU:HB2	1.82	0.61
1:D:203:ASP:O	1:D:205:PRO:HD3	2.01	0.61
1:D:680:ALA:HA	1:D:685:ALA:HB2	1.83	0.61
1:D:2092:THR:HG23	1:D:2092:THR:O	1.99	0.61
1:D:2469:LEU:HD11	1:D:2653:VAL:HB	1.82	0.61
1:E:203:ASP:O	1:E:205:PRO:HD3	2.01	0.61
1:E:488:ASN:HA	1:E:521:VAL:HB	1.83	0.61
1:E:2212:TRP:HA	1:E:2229:LYS:HD3	1.83	0.61
1:B:106:ALA:HB1	1:B:112:PRO:HB2	1.82	0.61
1:B:1353:PRO:HG3	1:B:1702:GLU:OE2	2.00	0.61
1:C:664:LEU:HD13	1:C:701:ALA:HB1	1.81	0.61
1:C:980:GLU:HB2	1:C:989:HIS:HB2	1.83	0.61
1:C:2176:LEU:HG	1:C:2180:LYS:HE3	1.80	0.61
1:D:438:THR:HA	1:D:880:HIS:HE1	1.66	0.61
1:D:924:LEU:O	1:D:929:GLU:N	2.30	0.61
1:E:750:LEU:HD12	1:E:827:LEU:HD11	1.81	0.61
1:E:1431:ALA:HB3	1:E:1459:THR:HG21	1.82	0.61
1:F:164:ALA:HA	1:F:178:LEU:HD13	1.82	0.61
1:A:1376:VAL:HA	1:A:1470:LEU:HD13	1.81	0.61
1:A:2610:ARG:HB2	1:F:2558:LEU:HD21	1.82	0.61
1:C:750:LEU:HD12	1:C:827:LEU:HD11	1.81	0.61
1:C:2212:TRP:HA	1:C:2229:LYS:HD3	1.83	0.61
1:D:488:ASN:HA	1:D:521:VAL:HB	1.83	0.61
1:D:575:HIS:HD2	1:D:644:LEU:HD22	1.66	0.61
1:F:126:VAL:HG12	1:F:182:ALA:HB1	1.83	0.61
1:F:664:LEU:HD13	1:F:701:ALA:HB1	1.81	0.61
1:F:1417:LEU:O	1:F:1423:THR:OG1	2.14	0.61
1:A:575:HIS:HD2	1:A:644:LEU:HD22	1.66	0.61
1:A:3058:ARG:HB2	1:A:3089:LEU:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:126:VAL:HG12	1:B:182:ALA:HB1	1.83	0.61
1:B:2752:ASP:HB3	1:E:2752:ASP:HB3	1.81	0.61
1:C:488:ASN:HA	1:C:521:VAL:HB	1.83	0.61
1:E:409:LYS:HD2	1:E:933:VAL:HA	1.82	0.61
1:E:438:THR:HA	1:E:880:HIS:HE1	1.66	0.61
1:E:575:HIS:HD2	1:E:644:LEU:HD22	1.66	0.61
1:E:2237:LEU:HB2	1:E:2287:LEU:HD11	1.82	0.61
1:E:2372:MET:HB3	1:E:2394:LEU:HD22	1.83	0.61
1:F:680:ALA:HA	1:F:685:ALA:HB2	1.83	0.61
1:F:1098:VAL:HG12	1:F:1100:ASP:H	1.66	0.61
1:A:2112:ARG:CG	1:A:2114:VAL:HG12	2.31	0.60
1:B:409:LYS:HD2	1:B:933:VAL:HA	1.82	0.60
1:B:2469:LEU:HD11	1:B:2653:VAL:HB	1.82	0.60
1:C:1431:ALA:HB3	1:C:1459:THR:HG21	1.82	0.60
1:C:2712:GLU:HA	1:C:2717:VAL:HG11	1.83	0.60
1:E:1725:SER:HB3	1:F:260:LEU:HD13	1.82	0.60
1:F:575:HIS:HD2	1:F:644:LEU:HD22	1.66	0.60
1:F:980:GLU:HB2	1:F:989:HIS:HB2	1.83	0.60
1:F:2334:HIS:HD2	1:F:2391:LYS:HG3	1.66	0.60
1:F:2647:VAL:HA	1:F:2650:TRP:HD1	1.66	0.60
1:F:3058:ARG:HB2	1:F:3089:LEU:HB2	1.82	0.60
1:A:2712:GLU:HA	1:A:2717:VAL:HG11	1.83	0.60
1:C:1098:VAL:HG12	1:C:1100:ASP:H	1.66	0.60
1:C:2431:THR:O	1:C:2431:THR:HG23	2.01	0.60
1:C:2749:GLU:HB3	1:D:2749:GLU:OE2	2.02	0.60
1:D:688:ARG:O	1:D:872:ARG:NE	2.34	0.60
1:E:164:ALA:HA	1:E:178:LEU:HD13	1.82	0.60
1:E:580:ARG:HG2	1:E:590:LEU:HD21	1.83	0.60
1:E:2334:HIS:HD2	1:E:2391:LYS:HG3	1.66	0.60
1:E:3058:ARG:HB2	1:E:3089:LEU:HB2	1.82	0.60
1:B:575:HIS:HD2	1:B:644:LEU:HD22	1.66	0.60
1:B:980:GLU:HB2	1:B:989:HIS:HB2	1.83	0.60
1:D:2112:ARG:CG	1:D:2114:VAL:HG12	2.31	0.60
1:E:971:ALA:O	1:E:974:THR:CG2	2.48	0.60
1:F:409:LYS:HD2	1:F:933:VAL:HA	1.82	0.60
1:F:2800:PHE:HE1	1:F:2812:LEU:HD22	1.67	0.60
1:A:488:ASN:HA	1:A:521:VAL:HB	1.83	0.60
1:A:2212:TRP:HA	1:A:2229:LYS:HD3	1.83	0.60
1:A:2372:MET:HB3	1:A:2394:LEU:HD22	1.83	0.60
1:A:2558:LEU:HD21	1:F:2610:ARG:HB2	1.82	0.60
1:B:1532:ILE:HA	1:B:1544:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2372:MET:HB3	1:B:2394:LEU:HD22	1.83	0.60
1:C:126:VAL:HG12	1:C:182:ALA:HB1	1.83	0.60
1:C:1532:ILE:HA	1:C:1544:ILE:HG12	1.83	0.60
1:C:2610:ARG:HB2	1:D:2558:LEU:HD21	1.82	0.60
1:C:2647:VAL:HA	1:C:2650:TRP:HD1	1.66	0.60
1:D:511:ARG:HH11	1:D:543:GLY:HA3	1.66	0.60
1:D:1532:ILE:HA	1:D:1544:ILE:HG12	1.83	0.60
1:F:1537:LEU:HB2	1:F:1541:GLN:H	1.67	0.60
1:A:2056:PHE:HZ	1:A:2180:LYS:HE2	1.67	0.60
1:C:34:LEU:H	1:C:393:VAL:HG21	1.65	0.60
1:C:688:ARG:O	1:C:872:ARG:NE	2.34	0.60
1:D:580:ARG:HG2	1:D:590:LEU:HD21	1.83	0.60
1:D:980:GLU:HB2	1:D:989:HIS:HB2	1.83	0.60
1:E:106:ALA:HB1	1:E:112:PRO:HB2	1.82	0.60
1:E:1412:HIS:ND1	1:E:1415:GLY:O	2.26	0.60
1:E:1537:LEU:HB2	1:E:1541:GLN:H	1.67	0.60
1:E:2686:MET:HE1	1:E:2935:LYS:HG3	1.83	0.60
1:E:2820:ILE:HD13	1:E:2943:MET:HG2	1.84	0.60
1:F:2469:LEU:HD11	1:F:2653:VAL:HB	1.82	0.60
1:A:164:ALA:HA	1:A:178:LEU:HD13	1.82	0.60
1:A:203:ASP:O	1:A:205:PRO:HD3	2.01	0.60
1:A:409:LYS:HD2	1:A:933:VAL:HA	1.82	0.60
1:A:980:GLU:HB2	1:A:989:HIS:HB2	1.83	0.60
1:A:1537:LEU:HB2	1:A:1541:GLN:H	1.67	0.60
1:A:2237:LEU:HB2	1:A:2287:LEU:HD11	1.82	0.60
1:A:2765:GLY:HA2	1:A:2940:VAL:HG21	1.82	0.60
1:B:670:GLY:O	1:B:682:ASN:ND2	2.35	0.60
1:B:688:ARG:O	1:B:872:ARG:NE	2.34	0.60
1:D:1431:ALA:HB3	1:D:1459:THR:HG21	1.82	0.60
1:D:2686:MET:HE1	1:D:2935:LYS:HG3	1.83	0.60
1:A:106:ALA:HB1	1:A:112:PRO:HB2	1.82	0.60
1:A:580:ARG:HG2	1:A:590:LEU:HD21	1.83	0.60
1:C:1537:LEU:HB2	1:C:1541:GLN:H	1.67	0.60
1:D:34:LEU:H	1:D:393:VAL:HG21	1.65	0.60
1:D:670:GLY:O	1:D:682:ASN:ND2	2.35	0.60
1:D:1098:VAL:HG12	1:D:1100:ASP:H	1.66	0.60
1:D:2334:HIS:HD2	1:D:2391:LYS:HG3	1.66	0.60
1:E:1309:VAL:HG22	1:E:1331:ILE:HG12	1.84	0.60
1:E:2056:PHE:HZ	1:E:2180:LYS:HE2	1.67	0.60
1:F:580:ARG:HG2	1:F:590:LEU:HD21	1.83	0.60
1:F:2112:ARG:CG	1:F:2114:VAL:HG22	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2962:ASP:OD1	1:F:2962:ASP:N	2.34	0.60
1:A:680:ALA:HA	1:A:685:ALA:HB2	1.83	0.60
1:B:34:LEU:O	1:B:38:LEU:N	2.25	0.60
1:B:687:GLY:O	1:B:695:ILE:N	2.34	0.60
1:C:687:GLY:O	1:C:695:ILE:N	2.34	0.60
1:C:1435:VAL:HG11	1:C:1463:CYS:HB3	1.84	0.60
1:C:1989:PHE:HD1	1:C:1992:LYS:HZ3	1.50	0.60
1:C:2800:PHE:HE1	1:C:2812:LEU:HD22	1.67	0.60
1:D:687:GLY:O	1:D:695:ILE:N	2.34	0.60
1:E:2712:GLU:HA	1:E:2717:VAL:HG11	1.83	0.60
1:A:1989:PHE:HD1	1:A:1992:LYS:HZ3	1.49	0.60
1:B:410:LEU:HB3	1:B:1025:VAL:HG21	1.84	0.60
1:B:1098:VAL:HG12	1:B:1100:ASP:H	1.66	0.60
1:C:1701:VAL:HG22	1:C:1732:LEU:HB2	1.84	0.60
1:C:2056:PHE:HZ	1:C:2180:LYS:HE2	1.67	0.60
1:D:2800:PHE:HE1	1:D:2812:LEU:HD22	1.67	0.60
1:E:410:LEU:HB3	1:E:1025:VAL:HG21	1.83	0.60
1:E:670:GLY:O	1:E:682:ASN:ND2	2.35	0.60
1:E:980:GLU:HB2	1:E:989:HIS:HB2	1.83	0.60
1:F:488:ASN:HA	1:F:521:VAL:HB	1.83	0.60
1:F:511:ARG:HH11	1:F:543:GLY:HA3	1.66	0.60
1:F:2056:PHE:HZ	1:F:2180:LYS:HE2	1.67	0.60
1:A:795:HIS:HB3	1:A:799:PHE:CZ	2.37	0.60
1:A:1309:VAL:HG22	1:A:1331:ILE:HG12	1.84	0.60
1:A:1532:ILE:HA	1:A:1544:ILE:HG12	1.83	0.60
1:A:2461:VAL:HG11	1:A:2751:VAL:HG22	1.84	0.60
1:B:580:ARG:HG2	1:B:590:LEU:HD21	1.83	0.60
1:B:836:VAL:HG12	1:B:837:VAL:H	1.67	0.60
1:B:1435:VAL:HG11	1:B:1463:CYS:HB3	1.84	0.60
1:B:2431:THR:HG23	1:B:2431:THR:O	2.01	0.60
1:B:2749:GLU:OE2	1:E:2749:GLU:HB3	2.02	0.60
1:B:2800:PHE:HE1	1:B:2812:LEU:HD22	1.67	0.60
1:C:575:HIS:HD2	1:C:644:LEU:HD22	1.65	0.60
1:D:2651:ASN:HD22	1:D:2718:VAL:HG12	1.67	0.60
1:E:34:LEU:H	1:E:393:VAL:HG21	1.65	0.60
1:E:680:ALA:HA	1:E:685:ALA:HB2	1.83	0.60
1:E:795:HIS:HB3	1:E:799:PHE:CZ	2.37	0.60
1:E:2431:THR:HG23	1:E:2431:THR:O	2.01	0.60
1:F:106:ALA:HB1	1:F:112:PRO:HB2	1.82	0.60
1:F:438:THR:HA	1:F:880:HIS:HE1	1.66	0.60
1:F:2431:THR:O	1:F:2431:THR:HG23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2712:GLU:HA	1:F:2717:VAL:HG11	1.83	0.60
1:A:1098:VAL:HG12	1:A:1100:ASP:H	1.66	0.59
1:B:1013:THR:CG2	1:B:1014:TRP:N	2.58	0.59
1:B:1309:VAL:HG22	1:B:1331:ILE:HG12	1.84	0.59
1:B:2212:TRP:HA	1:B:2229:LYS:HD3	1.83	0.59
1:B:2962:ASP:OD1	1:B:2962:ASP:N	2.34	0.59
1:C:795:HIS:HB3	1:C:799:PHE:CZ	2.37	0.59
1:C:2686:MET:HE1	1:C:2935:LYS:HG3	1.83	0.59
1:D:1695:LEU:CD2	1:E:257:ARG:HH12	2.13	0.59
1:D:1701:VAL:HG22	1:D:1732:LEU:HB2	1.84	0.59
1:E:2112:ARG:CG	1:E:2114:VAL:HG12	2.31	0.59
1:E:2469:LEU:HD11	1:E:2653:VAL:HB	1.82	0.59
1:E:2647:VAL:HA	1:E:2650:TRP:HD1	1.66	0.59
1:F:2820:ILE:HD13	1:F:2943:MET:HG2	1.84	0.59
1:A:688:ARG:O	1:A:872:ARG:NE	2.34	0.59
1:B:164:ALA:HA	1:B:178:LEU:HD13	1.82	0.59
1:B:1724:TYR:OH	1:C:267:GLU:OE2	2.07	0.59
1:B:2112:ARG:CG	1:B:2114:VAL:HG12	2.31	0.59
1:B:2749:GLU:HB3	1:E:2749:GLU:OE2	2.02	0.59
1:B:2889:ILE:HG12	1:B:2922:LEU:HB3	1.84	0.59
1:C:164:ALA:HA	1:C:178:LEU:HD13	1.82	0.59
1:C:836:VAL:HG12	1:C:837:VAL:H	1.67	0.59
1:C:2334:HIS:HD2	1:C:2391:LYS:HG3	1.66	0.59
1:D:2461:VAL:HG11	1:D:2751:VAL:HG22	1.84	0.59
1:E:687:GLY:O	1:E:695:ILE:N	2.34	0.59
1:F:410:LEU:HB3	1:F:1025:VAL:HG21	1.84	0.59
1:F:836:VAL:HG12	1:F:837:VAL:H	1.67	0.59
1:F:2372:MET:HB3	1:F:2394:LEU:HD22	1.83	0.59
1:F:2651:ASN:HD22	1:F:2718:VAL:HG12	1.67	0.59
1:F:2667:THR:HG21	1:F:3058:ARG:NH1	2.17	0.59
1:A:2800:PHE:HE1	1:A:2812:LEU:HD22	1.67	0.59
1:D:1656:LYS:HG2	1:D:1660:LEU:HG	1.84	0.59
1:E:1098:VAL:HG12	1:E:1100:ASP:H	1.66	0.59
1:E:1701:VAL:HG22	1:E:1732:LEU:HB2	1.84	0.59
1:F:670:GLY:O	1:F:682:ASN:ND2	2.35	0.59
1:F:2461:VAL:HG11	1:F:2751:VAL:HG22	1.84	0.59
1:A:2667:THR:HG21	1:A:3058:ARG:NH1	2.17	0.59
1:B:924:LEU:O	1:B:929:GLU:N	2.30	0.59
1:B:2651:ASN:HD22	1:B:2718:VAL:HG12	1.67	0.59
1:B:2686:MET:HE1	1:B:2935:LYS:HG3	1.83	0.59
1:B:2712:GLU:HA	1:B:2717:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:LEU:HB3	1:C:1025:VAL:HG21	1.83	0.59
1:D:795:HIS:HB3	1:D:799:PHE:CZ	2.37	0.59
1:D:1435:VAL:HG11	1:D:1463:CYS:HB3	1.84	0.59
1:E:126:VAL:HG12	1:E:182:ALA:HB1	1.83	0.59
1:E:511:ARG:HH11	1:E:543:GLY:HA3	1.65	0.59
1:E:1532:ILE:HA	1:E:1544:ILE:HG12	1.83	0.59
1:F:1532:ILE:HA	1:F:1544:ILE:HG12	1.83	0.59
1:F:2521:VAL:HG13	1:F:2529:ARG:HH11	1.68	0.59
1:A:462:GLN:HG3	1:A:468:PHE:HD1	1.68	0.59
1:A:670:GLY:O	1:A:682:ASN:ND2	2.35	0.59
1:A:924:LEU:O	1:A:929:GLU:N	2.30	0.59
1:A:2889:ILE:HG12	1:A:2922:LEU:HB3	1.84	0.59
1:B:1095:LEU:HD22	1:B:1289:PRO:HA	1.85	0.59
1:D:34:LEU:O	1:D:38:LEU:N	2.25	0.59
1:D:126:VAL:HG12	1:D:182:ALA:HB1	1.83	0.59
1:D:2056:PHE:HZ	1:D:2180:LYS:HE2	1.67	0.59
1:D:2431:THR:HG23	1:D:2431:THR:O	2.01	0.59
1:D:2667:THR:HG21	1:D:3058:ARG:NH1	2.17	0.59
1:F:2403:ILE:HG23	1:F:2408:LEU:HD12	1.85	0.59
1:A:1616:PRO:HG3	1:A:1668:LEU:HD13	1.85	0.59
1:A:2431:THR:HG23	1:A:2431:THR:O	2.01	0.59
1:C:462:GLN:HG3	1:C:468:PHE:HD1	1.68	0.59
1:C:1336:VAL:HG12	1:C:1337:MET:HG3	1.85	0.59
1:C:2651:ASN:HD22	1:C:2718:VAL:HG12	1.67	0.59
1:C:2667:THR:HG21	1:C:3058:ARG:NH1	2.17	0.59
1:C:2749:GLU:OE2	1:D:2749:GLU:HB3	2.02	0.59
1:C:2752:ASP:OD2	1:D:2753:LYS:NZ	2.36	0.59
1:D:1008:VAL:HG23	1:D:1008:VAL:O	2.03	0.59
1:E:34:LEU:O	1:E:38:LEU:N	2.25	0.59
1:E:688:ARG:O	1:E:872:ARG:NE	2.34	0.59
1:B:488:ASN:HA	1:B:521:VAL:HB	1.83	0.59
1:B:2403:ILE:HG23	1:B:2408:LEU:HD12	1.85	0.59
1:C:580:ARG:HG2	1:C:590:LEU:HD21	1.83	0.59
1:C:1309:VAL:HG22	1:C:1331:ILE:HG12	1.84	0.59
1:C:2112:ARG:CG	1:C:2114:VAL:HG12	2.31	0.59
1:F:1095:LEU:HD22	1:F:1289:PRO:HA	1.85	0.59
1:F:2212:TRP:HA	1:F:2229:LYS:HD3	1.83	0.59
1:F:3080:ARG:HH11	1:F:3080:ARG:CG	2.07	0.59
1:A:687:GLY:O	1:A:695:ILE:N	2.34	0.59
1:A:2521:VAL:HG13	1:A:2529:ARG:HH11	1.68	0.59
1:A:2647:VAL:HA	1:A:2650:TRP:HD1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2651:ASN:HD22	1:A:2718:VAL:HG12	1.67	0.59
1:B:1656:LYS:HG2	1:B:1660:LEU:HG	1.84	0.59
1:B:2056:PHE:HZ	1:B:2180:LYS:HE2	1.67	0.59
1:C:670:GLY:O	1:C:682:ASN:ND2	2.35	0.59
1:C:2748:GLU:HG2	1:D:2753:LYS:HZ2	1.67	0.59
1:C:2820:ILE:HD13	1:C:2943:MET:HG2	1.84	0.59
1:D:836:VAL:HG12	1:D:837:VAL:H	1.67	0.59
1:D:2372:MET:HB3	1:D:2394:LEU:HD22	1.83	0.59
1:E:462:GLN:HG3	1:E:468:PHE:HD1	1.68	0.59
1:E:2667:THR:HG21	1:E:3058:ARG:NH1	2.17	0.59
1:E:3080:ARG:HG3	1:E:3080:ARG:NH1	2.09	0.59
1:F:2686:MET:HE1	1:F:2935:LYS:HG3	1.83	0.59
1:F:2693:GLN:O	1:F:2697:HIS:ND1	2.33	0.59
1:A:1656:LYS:HG2	1:A:1660:LEU:HG	1.85	0.59
1:A:2554:ALA:HB1	1:A:2614:LYS:HZ2	1.66	0.59
1:B:462:GLN:HG3	1:B:468:PHE:HD1	1.68	0.59
1:C:129:VAL:HG13	1:C:356:PRO:HG2	1.85	0.59
1:C:150:THR:O	1:C:152:PRO:HD3	2.03	0.59
1:D:2647:VAL:HA	1:D:2650:TRP:HD1	1.66	0.59
1:A:238:SER:OG	1:A:249:THR:OG1	2.16	0.59
1:A:836:VAL:HG12	1:A:837:VAL:H	1.67	0.59
1:A:1008:VAL:CG2	1:A:1019:PHE:HB3	2.33	0.59
1:A:1435:VAL:HG11	1:A:1463:CYS:HB3	1.84	0.59
1:A:2334:HIS:HD2	1:A:2391:LYS:HG3	1.66	0.59
1:B:1336:VAL:HG12	1:B:1337:MET:HG3	1.85	0.59
1:B:2614:LYS:HZ1	1:E:2583:PHE:HD1	1.51	0.59
1:B:2647:VAL:HA	1:B:2650:TRP:HD1	1.66	0.59
1:B:2667:THR:HG21	1:B:3058:ARG:NH1	2.17	0.59
1:C:1008:VAL:HG23	1:C:1008:VAL:O	2.03	0.59
1:C:2521:VAL:HG13	1:C:2529:ARG:HH11	1.68	0.59
1:E:836:VAL:HG12	1:E:837:VAL:H	1.67	0.59
1:F:462:GLN:HG3	1:F:468:PHE:HD1	1.68	0.59
1:F:784:GLU:OE2	1:F:787:LEU:HD12	2.03	0.59
1:F:1008:VAL:CG2	1:F:1019:PHE:HB3	2.33	0.59
1:A:410:LEU:HB3	1:A:1025:VAL:HG21	1.84	0.58
1:A:2749:GLU:OE2	1:F:2749:GLU:HB3	2.02	0.58
1:B:33:ALA:O	1:B:37:ARG:N	2.35	0.58
1:B:500:GLN:O	1:B:504:LYS:N	2.24	0.58
1:B:795:HIS:HB3	1:B:799:PHE:CZ	2.37	0.58
1:B:1537:LEU:HB2	1:B:1541:GLN:H	1.67	0.58
1:B:2693:GLN:O	1:B:2697:HIS:ND1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1656:LYS:HG2	1:C:1660:LEU:HG	1.85	0.58
1:D:1537:LEU:HB2	1:D:1541:GLN:H	1.67	0.58
1:E:2461:VAL:HG11	1:E:2751:VAL:HG22	1.84	0.58
1:F:150:THR:O	1:F:152:PRO:HD3	2.03	0.58
1:F:688:ARG:O	1:F:872:ARG:NE	2.34	0.58
1:F:2889:ILE:HG12	1:F:2922:LEU:HB3	1.85	0.58
1:A:1701:VAL:HG22	1:A:1732:LEU:HB2	1.84	0.58
1:A:2753:LYS:NZ	1:F:2752:ASP:OD2	2.36	0.58
1:D:2521:VAL:HG13	1:D:2529:ARG:HH11	1.68	0.58
1:F:33:ALA:O	1:F:37:ARG:N	2.35	0.58
1:F:129:VAL:HG13	1:F:356:PRO:HG2	1.85	0.58
1:F:735:LYS:HD2	1:F:860:VAL:HG23	1.85	0.58
1:A:784:GLU:OE2	1:A:787:LEU:HD12	2.03	0.58
1:B:1616:PRO:HG3	1:B:1668:LEU:HD13	1.85	0.58
1:C:500:GLN:O	1:C:504:LYS:N	2.24	0.58
1:C:2889:ILE:HG12	1:C:2922:LEU:HB3	1.85	0.58
1:D:150:THR:O	1:D:152:PRO:HD3	2.03	0.58
1:D:1095:LEU:HD22	1:D:1289:PRO:HA	1.85	0.58
1:D:1309:VAL:HG22	1:D:1331:ILE:HG12	1.84	0.58
1:D:2084:GLN:O	1:D:2087:GLN:CG	2.52	0.58
1:D:2820:ILE:HD13	1:D:2943:MET:HG2	1.84	0.58
1:E:1336:VAL:HG12	1:E:1337:MET:HG3	1.85	0.58
1:A:2749:GLU:HB3	1:F:2749:GLU:OE2	2.02	0.58
1:B:735:LYS:HD2	1:B:860:VAL:HG23	1.86	0.58
1:B:2124:ALA:O	1:B:2127:GLU:CG	2.51	0.58
1:C:2403:ILE:HG23	1:C:2408:LEU:HD12	1.85	0.58
1:D:410:LEU:HB3	1:D:1025:VAL:HG21	1.84	0.58
1:E:784:GLU:OE2	1:E:787:LEU:HD12	2.03	0.58
1:E:1087:PHE:HB3	1:F:117:LYS:NZ	2.18	0.58
1:E:2084:GLN:O	1:E:2087:GLN:CG	2.52	0.58
1:E:2521:VAL:HG13	1:E:2529:ARG:HH11	1.68	0.58
1:F:621:SER:OG	1:F:643:ILE:HD13	2.04	0.58
1:F:795:HIS:HB3	1:F:799:PHE:CZ	2.37	0.58
1:F:1656:LYS:HG2	1:F:1660:LEU:HG	1.84	0.58
1:F:2084:GLN:O	1:F:2087:GLN:CG	2.52	0.58
1:A:2686:MET:HE1	1:A:2935:LYS:HG3	1.84	0.58
1:A:2820:ILE:HD13	1:A:2943:MET:HG2	1.84	0.58
1:B:2753:LYS:NZ	1:E:2752:ASP:OD2	2.36	0.58
1:B:2820:ILE:HD13	1:B:2943:MET:HG2	1.84	0.58
1:C:784:GLU:OE2	1:C:787:LEU:HD12	2.03	0.58
1:D:129:VAL:HG13	1:D:356:PRO:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2124:ALA:O	1:D:2127:GLU:CG	2.51	0.58
1:F:476:GLU:HA	1:F:479:LEU:HB2	1.86	0.58
1:F:1989:PHE:HD1	1:F:1992:LYS:HZ3	1.50	0.58
1:A:2752:ASP:OD2	1:F:2753:LYS:NZ	2.36	0.58
1:B:1087:PHE:HB3	1:C:117:LYS:NZ	2.19	0.58
1:B:1327:VAL:HB	1:B:1339:ALA:HB3	1.86	0.58
1:B:2461:VAL:HG11	1:B:2751:VAL:HG22	1.84	0.58
1:C:2124:ALA:O	1:C:2127:GLU:CG	2.51	0.58
1:C:2693:GLN:O	1:C:2697:HIS:ND1	2.33	0.58
1:D:784:GLU:OE2	1:D:787:LEU:HD12	2.04	0.58
1:D:2487:LEU:HD11	1:D:2495:LEU:HD12	1.86	0.58
1:D:2712:GLU:HA	1:D:2717:VAL:HG11	1.84	0.58
1:E:735:LYS:HD2	1:E:860:VAL:HG23	1.85	0.58
1:F:500:GLN:O	1:F:504:LYS:N	2.24	0.58
1:F:1327:VAL:HB	1:F:1339:ALA:HB3	1.86	0.58
1:F:2876:LEU:HB3	1:F:2881:VAL:HG12	1.86	0.58
1:A:33:ALA:O	1:A:37:ARG:N	2.35	0.58
1:A:126:VAL:HG12	1:A:182:ALA:HB1	1.83	0.58
1:A:621:SER:OG	1:A:643:ILE:HD13	2.04	0.58
1:A:1087:PHE:HB3	1:B:117:LYS:NZ	2.19	0.58
1:C:2084:GLN:O	1:C:2087:GLN:CG	2.52	0.58
1:C:2487:LEU:HD11	1:C:2495:LEU:HD12	1.86	0.58
1:C:2876:LEU:HB3	1:C:2881:VAL:HG12	1.86	0.58
1:D:1616:PRO:HG3	1:D:1668:LEU:HD13	1.85	0.58
1:E:127:PRO:HG3	1:E:183:GLN:HA	1.86	0.58
1:E:150:THR:O	1:E:152:PRO:HD3	2.03	0.58
1:E:924:LEU:O	1:E:929:GLU:N	2.30	0.58
1:E:1616:PRO:HG3	1:E:1668:LEU:HD13	1.85	0.58
1:E:2487:LEU:HD11	1:E:2495:LEU:HD12	1.86	0.58
1:E:2889:ILE:HG12	1:E:2922:LEU:HB3	1.84	0.58
1:F:1091:LEU:HD13	1:F:1281:ALA:HB3	1.86	0.58
1:A:127:PRO:HG3	1:A:183:GLN:HA	1.85	0.58
1:A:735:LYS:HD2	1:A:860:VAL:HG23	1.85	0.58
1:A:1008:VAL:HG23	1:A:1008:VAL:O	2.03	0.58
1:B:1008:VAL:CG1	1:B:1019:PHE:HB3	2.33	0.58
1:B:1253:ARG:HG3	1:B:1253:ARG:NH1	2.18	0.58
1:B:1701:VAL:HG22	1:B:1732:LEU:HB2	1.84	0.58
1:B:1989:PHE:HD1	1:B:1992:LYS:HZ3	1.49	0.58
1:B:2084:GLN:O	1:B:2087:GLN:CG	2.52	0.58
1:B:2876:LEU:HB3	1:B:2881:VAL:HG12	1.86	0.58
1:C:621:SER:OG	1:C:643:ILE:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:238:SER:OG	1:D:249:THR:OG1	2.15	0.58
1:D:476:GLU:HA	1:D:479:LEU:HB2	1.86	0.58
1:D:1087:PHE:HB3	1:E:117:LYS:NZ	2.19	0.58
1:D:2876:LEU:HB3	1:D:2881:VAL:HG12	1.86	0.58
1:E:621:SER:OG	1:E:643:ILE:HD13	2.04	0.58
1:F:127:PRO:HG3	1:F:183:GLN:HA	1.86	0.58
1:F:511:ARG:HD2	1:F:517:ILE:O	2.04	0.58
1:A:117:LYS:NZ	1:C:1087:PHE:HB3	2.18	0.58
1:A:267:GLU:OE2	1:C:1724:TYR:OH	2.07	0.58
1:A:2124:ALA:O	1:A:2127:GLU:CG	2.51	0.58
1:B:2753:LYS:NZ	1:E:2748:GLU:HG2	2.19	0.58
1:B:2787:THR:HA	1:B:2790:MET:HG3	1.86	0.58
1:C:476:GLU:HA	1:C:479:LEU:HB2	1.86	0.58
1:C:1008:VAL:CG2	1:C:1019:PHE:HB3	2.33	0.58
1:F:1616:PRO:HG3	1:F:1668:LEU:HD13	1.85	0.58
1:F:2124:ALA:O	1:F:2127:GLU:CG	2.51	0.58
1:A:34:LEU:O	1:A:38:LEU:N	2.25	0.58
1:A:150:THR:O	1:A:152:PRO:HD3	2.03	0.58
1:A:511:ARG:NH1	1:A:543:GLY:HA3	2.19	0.58
1:A:2787:THR:HA	1:A:2790:MET:HG3	1.86	0.58
1:B:150:THR:O	1:B:152:PRO:HD3	2.03	0.58
1:B:511:ARG:HD2	1:B:517:ILE:O	2.04	0.58
1:B:2554:ALA:HB1	1:B:2614:LYS:NZ	2.19	0.58
1:C:441:ASP:OD2	1:C:443:LYS:HB3	2.04	0.58
1:C:1538:ARG:NH1	1:C:1722:PRO:HB3	2.18	0.58
1:C:2339:TRP:HB2	1:C:2398:LEU:HD11	1.86	0.58
1:D:267:GLU:OE2	1:F:1724:TYR:OH	2.07	0.58
1:D:1008:VAL:CG2	1:D:1019:PHE:HB3	2.33	0.58
1:E:1010:LEU:O	1:E:1017:ILE:N	2.29	0.58
1:E:1095:LEU:HD22	1:E:1289:PRO:HA	1.85	0.58
1:E:1656:LYS:HG2	1:E:1660:LEU:HG	1.85	0.58
1:E:2787:THR:HA	1:E:2790:MET:HG3	1.86	0.58
1:E:2800:PHE:HE1	1:E:2812:LEU:HD22	1.67	0.58
1:F:687:GLY:O	1:F:695:ILE:N	2.34	0.58
1:F:1309:VAL:HG22	1:F:1331:ILE:HG12	1.84	0.58
1:A:1091:LEU:HD13	1:A:1281:ALA:HB3	1.86	0.57
1:A:1253:ARG:HG3	1:A:1253:ARG:NH1	2.18	0.57
1:A:2084:GLN:O	1:A:2087:GLN:CG	2.52	0.57
1:A:2339:TRP:HB2	1:A:2398:LEU:HD11	1.86	0.57
1:C:776:ASP:O	1:C:779:TRP:N	2.31	0.57
1:D:1253:ARG:HG3	1:D:1253:ARG:NH1	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2339:TRP:HB2	1:D:2398:LEU:HD11	1.86	0.57
1:E:476:GLU:HA	1:E:479:LEU:HB2	1.86	0.57
1:E:2124:ALA:O	1:E:2127:GLU:CG	2.51	0.57
1:E:2554:ALA:HB1	1:E:2614:LYS:NZ	2.19	0.57
1:F:441:ASP:OD2	1:F:443:LYS:HB3	2.04	0.57
1:F:511:ARG:NH1	1:F:543:GLY:HA3	2.19	0.57
1:F:1008:VAL:HG23	1:F:1008:VAL:O	2.03	0.57
1:F:1336:VAL:HG12	1:F:1337:MET:HG3	1.85	0.57
1:A:1336:VAL:HG12	1:A:1337:MET:HG3	1.85	0.57
1:B:441:ASP:OD2	1:B:443:LYS:HB3	2.04	0.57
1:B:476:GLU:HA	1:B:479:LEU:HB2	1.86	0.57
1:C:511:ARG:NH1	1:C:543:GLY:HA3	2.19	0.57
1:C:1616:PRO:HG3	1:C:1668:LEU:HD13	1.85	0.57
1:D:2889:ILE:HG12	1:D:2922:LEU:HB3	1.85	0.57
1:E:511:ARG:HD2	1:E:517:ILE:O	2.04	0.57
1:E:1008:VAL:O	1:E:1008:VAL:HG23	2.03	0.57
1:F:924:LEU:HA	1:F:928:ALA:HB3	1.86	0.57
1:F:1701:VAL:HG22	1:F:1732:LEU:HB2	1.84	0.57
1:B:2845:PHE:CD1	1:E:2731:GLY:HA2	2.39	0.57
1:B:2846:ALA:HA	1:B:3001:HIS:O	2.05	0.57
1:C:2724:GLN:HG2	1:D:3001:HIS:NE2	2.19	0.57
1:D:117:LYS:NZ	1:F:1087:PHE:HB3	2.19	0.57
1:D:924:LEU:HA	1:D:928:ALA:HB3	1.87	0.57
1:E:1008:VAL:CG2	1:E:1019:PHE:HB3	2.33	0.57
1:E:2651:ASN:HD22	1:E:2718:VAL:HG12	1.67	0.57
1:F:1538:ARG:NH1	1:F:1722:PRO:HB3	2.18	0.57
1:F:2983:LEU:HB3	1:F:2987:PHE:O	2.05	0.57
1:A:1095:LEU:HD22	1:A:1289:PRO:HA	1.85	0.57
1:B:1008:VAL:HG13	1:B:1008:VAL:O	2.03	0.57
1:B:1405:ALA:HB3	1:B:1408:VAL:HG23	1.87	0.57
1:C:735:LYS:HD2	1:C:860:VAL:HG23	1.85	0.57
1:C:1537:LEU:HD11	1:C:1714:LEU:HB3	1.86	0.57
1:C:2622:GLY:HA2	1:C:2812:LEU:HD11	1.87	0.57
1:C:2983:LEU:HB3	1:C:2987:PHE:O	2.05	0.57
1:D:462:GLN:HG3	1:D:468:PHE:HD1	1.68	0.57
1:D:1445:VAL:HG23	1:D:1448:ALA:HB2	1.87	0.57
1:D:1537:LEU:HD11	1:D:1714:LEU:HB3	1.87	0.57
1:E:2876:LEU:HB3	1:E:2881:VAL:HG12	1.86	0.57
1:E:2961:LEU:HD23	1:E:2978:ARG:HB3	1.87	0.57
1:F:2787:THR:HA	1:F:2790:MET:HG3	1.86	0.57
1:A:1327:VAL:HB	1:A:1339:ALA:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2403:ILE:HG23	1:A:2408:LEU:HD12	1.85	0.57
1:A:2583:PHE:HD1	1:F:2614:LYS:HZ1	1.52	0.57
1:C:511:ARG:HD2	1:C:517:ILE:O	2.04	0.57
1:C:1405:ALA:HB3	1:C:1408:VAL:HG23	1.87	0.57
1:C:2753:LYS:NZ	1:D:2748:GLU:HG2	2.19	0.57
1:D:1017:ILE:HG23	1:D:1045:VAL:HG21	1.87	0.57
1:D:1336:VAL:HG12	1:D:1337:MET:HG3	1.85	0.57
1:D:2403:ILE:HG23	1:D:2408:LEU:HD12	1.85	0.57
1:D:2846:ALA:HA	1:D:3001:HIS:O	2.05	0.57
1:E:129:VAL:HG13	1:E:356:PRO:HG2	1.85	0.57
1:E:1091:LEU:HD13	1:E:1281:ALA:HB3	1.86	0.57
1:E:2693:GLN:O	1:E:2697:HIS:ND1	2.33	0.57
1:F:776:ASP:O	1:F:779:TRP:N	2.31	0.57
1:F:1445:VAL:HG23	1:F:1448:ALA:HB2	1.87	0.57
1:A:2753:LYS:NZ	1:F:2748:GLU:HG2	2.19	0.57
1:B:2339:TRP:HB2	1:B:2398:LEU:HD11	1.86	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:HH11	1.68	0.57
1:C:127:PRO:HG3	1:C:183:GLN:HA	1.86	0.57
1:C:924:LEU:HA	1:C:928:ALA:HB3	1.87	0.57
1:C:2709:ILE:O	1:C:2713:VAL:HG13	2.05	0.57
1:C:3001:HIS:NE2	1:D:2724:GLN:HG2	2.19	0.57
1:E:1405:ALA:HB3	1:E:1408:VAL:HG23	1.86	0.57
1:E:1435:VAL:HG11	1:E:1463:CYS:HB3	1.84	0.57
1:E:1989:PHE:HD1	1:E:1992:LYS:HZ3	1.51	0.57
1:F:2487:LEU:HD11	1:F:2495:LEU:HD12	1.86	0.57
1:A:441:ASP:OD2	1:A:443:LYS:HB3	2.04	0.57
1:A:511:ARG:HD2	1:A:517:ILE:O	2.04	0.57
1:B:776:ASP:O	1:B:779:TRP:N	2.31	0.57
1:B:784:GLU:OE2	1:B:787:LEU:HD12	2.03	0.57
1:B:924:LEU:HA	1:B:928:ALA:HB3	1.86	0.57
1:B:2748:GLU:HG2	1:E:2753:LYS:HZ2	1.69	0.57
1:B:3077:THR:O	1:E:2865:ARG:NH1	2.38	0.57
1:C:475:LEU:O	1:C:479:LEU:N	2.37	0.57
1:C:1017:ILE:HG23	1:C:1045:VAL:HG21	1.87	0.57
1:C:1327:VAL:HB	1:C:1339:ALA:HB3	1.86	0.57
1:C:2461:VAL:HG11	1:C:2751:VAL:HG22	1.84	0.57
1:D:2787:THR:HA	1:D:2790:MET:HG3	1.86	0.57
1:E:2403:ILE:HG23	1:E:2408:LEU:HD12	1.85	0.57
1:E:2846:ALA:HA	1:E:3001:HIS:O	2.05	0.57
1:F:238:SER:OG	1:F:249:THR:OG1	2.15	0.57
1:F:1435:VAL:HG11	1:F:1463:CYS:HB3	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2487:LEU:HD11	1:A:2495:LEU:HD12	1.86	0.57
1:A:2554:ALA:HB1	1:A:2614:LYS:NZ	2.19	0.57
1:A:2724:GLN:HG2	1:F:3001:HIS:NE2	2.20	0.57
1:A:2876:LEU:HB3	1:A:2881:VAL:HG12	1.86	0.57
1:A:2961:LEU:HD23	1:A:2978:ARG:HB3	1.87	0.57
1:B:1126:ILE:O	1:B:1197:ARG:CG	2.53	0.57
1:B:2748:GLU:HG2	1:E:2753:LYS:NZ	2.19	0.57
1:B:3001:HIS:NE2	1:E:2724:GLN:HG2	2.20	0.57
1:C:2753:LYS:NZ	1:D:2752:ASP:OD2	2.36	0.57
1:D:1538:ARG:NH1	1:D:1722:PRO:HB3	2.18	0.57
1:D:2961:LEU:HD23	1:D:2978:ARG:HB3	1.87	0.57
1:E:924:LEU:HA	1:E:928:ALA:HB3	1.86	0.57
1:E:2709:ILE:O	1:E:2713:VAL:HG13	2.05	0.57
1:F:1537:LEU:HD11	1:F:1714:LEU:HB3	1.87	0.57
1:A:476:GLU:HA	1:A:479:LEU:HB2	1.86	0.57
1:A:1001:ASP:O	1:A:1002:GLN:CG	2.53	0.57
1:A:2709:ILE:O	1:A:2713:VAL:HG13	2.05	0.57
1:A:2748:GLU:HG2	1:F:2753:LYS:NZ	2.19	0.57
1:A:2846:ALA:HA	1:A:3001:HIS:O	2.05	0.57
1:B:127:PRO:HG3	1:B:183:GLN:HA	1.86	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:NH1	2.20	0.57
1:B:2865:ARG:NH1	1:E:3077:THR:O	2.38	0.57
1:C:1445:VAL:HG23	1:C:1448:ALA:HB2	1.87	0.57
1:D:33:ALA:O	1:D:37:ARG:N	2.35	0.57
1:D:621:SER:OG	1:D:643:ILE:HD13	2.04	0.57
1:D:2554:ALA:HB1	1:D:2614:LYS:HZ2	1.70	0.57
1:D:2622:GLY:HA2	1:D:2812:LEU:HD11	1.87	0.57
1:E:511:ARG:NH1	1:E:543:GLY:HA3	2.19	0.57
1:A:129:VAL:HG13	1:A:356:PRO:HG2	1.85	0.57
1:A:475:LEU:O	1:A:479:LEU:N	2.37	0.57
1:A:1405:ALA:HB3	1:A:1408:VAL:HG23	1.86	0.57
1:A:2865:ARG:NH1	1:F:3077:THR:O	2.38	0.57
1:A:3001:HIS:NE2	1:F:2724:GLN:HG2	2.19	0.57
1:A:3077:THR:O	1:F:2865:ARG:NH1	2.38	0.57
1:C:1095:LEU:HD22	1:C:1289:PRO:HA	1.85	0.57
1:C:2748:GLU:HG2	1:D:2753:LYS:NZ	2.19	0.57
1:D:127:PRO:HG3	1:D:183:GLN:HA	1.86	0.57
1:D:441:ASP:OD2	1:D:443:LYS:HB3	2.04	0.57
1:D:511:ARG:HD2	1:D:517:ILE:O	2.04	0.57
1:D:735:LYS:HD2	1:D:860:VAL:HG23	1.85	0.57
1:D:1126:ILE:O	1:D:1197:ARG:CG	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2521:VAL:HG13	1:D:2529:ARG:NH1	2.20	0.57
1:D:2962:ASP:OD1	1:D:2962:ASP:N	2.34	0.57
1:E:1017:ILE:HG23	1:E:1045:VAL:HG21	1.87	0.57
1:F:177:GLU:HB3	1:F:317:LEU:HD13	1.87	0.57
1:F:1017:ILE:HG23	1:F:1045:VAL:HG21	1.87	0.57
1:F:2339:TRP:HB2	1:F:2398:LEU:HD11	1.86	0.57
1:F:2622:GLY:HA2	1:F:2812:LEU:HD11	1.87	0.57
1:B:2487:LEU:HD11	1:B:2495:LEU:HD12	1.86	0.56
1:B:2622:GLY:HA2	1:B:2812:LEU:HD11	1.87	0.56
1:B:2709:ILE:O	1:B:2713:VAL:HG13	2.05	0.56
1:C:2865:ARG:NH1	1:D:3077:THR:O	2.38	0.56
1:D:1327:VAL:HB	1:D:1339:ALA:HB3	1.86	0.56
1:E:441:ASP:OD2	1:E:443:LYS:HB3	2.04	0.56
1:E:1537:LEU:HD11	1:E:1714:LEU:HB3	1.86	0.56
1:F:2554:ALA:HB1	1:F:2614:LYS:NZ	2.19	0.56
1:A:1537:LEU:HD11	1:A:1714:LEU:HB3	1.87	0.56
1:B:621:SER:OG	1:B:643:ILE:HD13	2.04	0.56
1:C:2554:ALA:HB1	1:C:2614:LYS:NZ	2.19	0.56
1:D:1637:VAL:HG21	1:D:1671:TRP:CG	2.40	0.56
1:D:1989:PHE:HD1	1:D:1992:LYS:HZ3	1.51	0.56
1:D:2709:ILE:O	1:D:2713:VAL:HG13	2.05	0.56
1:E:1327:VAL:HB	1:E:1339:ALA:HB3	1.86	0.56
1:E:2521:VAL:HG13	1:E:2529:ARG:NH1	2.20	0.56
1:E:2622:GLY:HA2	1:E:2812:LEU:HD11	1.87	0.56
1:F:1001:ASP:O	1:F:1002:GLN:CG	2.53	0.56
1:F:1637:VAL:HG21	1:F:1671:TRP:CG	2.40	0.56
1:A:500:GLN:O	1:A:504:LYS:N	2.24	0.56
1:A:868:ARG:HB3	1:A:872:ARG:HH11	1.70	0.56
1:A:1637:VAL:HG21	1:A:1671:TRP:CG	2.40	0.56
1:B:490:LEU:HD23	1:B:523:SER:HB2	1.87	0.56
1:B:1091:LEU:HD13	1:B:1281:ALA:HB3	1.86	0.56
1:B:1537:LEU:HD11	1:B:1714:LEU:HB3	1.87	0.56
1:B:2724:GLN:HG2	1:E:3001:HIS:NE2	2.19	0.56
1:B:2983:LEU:HB3	1:B:2987:PHE:O	2.05	0.56
1:C:37:ARG:O	1:C:41:GLY:N	2.39	0.56
1:C:2583:PHE:HD1	1:D:2614:LYS:HZ1	1.51	0.56
1:C:2846:ALA:HA	1:C:3001:HIS:O	2.05	0.56
1:C:2961:LEU:HD23	1:C:2978:ARG:HB3	1.87	0.56
1:D:177:GLU:HB3	1:D:317:LEU:HD13	1.87	0.56
1:D:475:LEU:O	1:D:479:LEU:N	2.37	0.56
1:D:511:ARG:NH1	1:D:543:GLY:HA3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:776:ASP:O	1:D:779:TRP:N	2.31	0.56
1:D:868:ARG:HB3	1:D:872:ARG:HH11	1.70	0.56
1:D:1001:ASP:O	1:D:1002:GLN:CG	2.53	0.56
1:D:1405:ALA:HB3	1:D:1408:VAL:HG23	1.87	0.56
1:D:2554:ALA:HB1	1:D:2614:LYS:NZ	2.19	0.56
1:E:776:ASP:O	1:E:779:TRP:N	2.31	0.56
1:E:868:ARG:HB3	1:E:872:ARG:HH11	1.70	0.56
1:E:1126:ILE:O	1:E:1197:ARG:CG	2.53	0.56
1:E:1511:ASP:H	1:E:1514:ASP:HB2	1.71	0.56
1:E:2983:LEU:HB3	1:E:2987:PHE:O	2.05	0.56
1:F:490:LEU:HD23	1:F:523:SER:HB2	1.87	0.56
1:F:1126:ILE:O	1:F:1197:ARG:CG	2.53	0.56
1:F:1405:ALA:HB3	1:F:1408:VAL:HG23	1.86	0.56
1:F:2846:ALA:HA	1:F:3001:HIS:O	2.05	0.56
1:A:2957:PRO:HD3	1:A:2980:PRO:HB3	1.88	0.56
1:B:129:VAL:HG13	1:B:356:PRO:HG2	1.85	0.56
1:B:1637:VAL:HG21	1:B:1671:TRP:CG	2.40	0.56
1:C:1511:ASP:H	1:C:1514:ASP:HB2	1.71	0.56
1:D:745:THR:OG1	1:D:834:GLU:O	2.19	0.56
1:E:37:ARG:O	1:E:41:GLY:N	2.39	0.56
1:F:1253:ARG:HG3	1:F:1253:ARG:NH1	2.18	0.56
1:F:2521:VAL:HG13	1:F:2529:ARG:NH1	2.20	0.56
1:A:1420:THR:OG1	1:A:1485:HIS:NE2	2.39	0.56
1:A:1445:VAL:HG23	1:A:1448:ALA:HB2	1.87	0.56
1:A:2521:VAL:HG13	1:A:2529:ARG:NH1	2.20	0.56
1:B:868:ARG:HB3	1:B:872:ARG:HH11	1.70	0.56
1:B:1445:VAL:HG23	1:B:1448:ALA:HB2	1.87	0.56
1:B:2752:ASP:OD2	1:E:2753:LYS:NZ	2.36	0.56
1:C:177:GLU:HB3	1:C:317:LEU:HD13	1.87	0.56
1:C:1091:LEU:HD13	1:C:1281:ALA:HB3	1.86	0.56
1:C:1637:VAL:HG21	1:C:1671:TRP:CG	2.40	0.56
1:D:2957:PRO:HD3	1:D:2980:PRO:HB3	1.88	0.56
1:F:1511:ASP:H	1:F:1514:ASP:HB2	1.71	0.56
1:F:2709:ILE:O	1:F:2713:VAL:HG13	2.05	0.56
1:A:540:ASN:HD21	1:A:544:ILE:HG13	1.71	0.56
1:B:238:SER:OG	1:B:249:THR:OG1	2.15	0.56
1:B:511:ARG:NH1	1:B:543:GLY:HA3	2.19	0.56
1:B:1017:ILE:HG23	1:B:1045:VAL:HG21	1.87	0.56
1:C:868:ARG:HB3	1:C:872:ARG:HH11	1.70	0.56
1:C:1420:THR:OG1	1:C:1485:HIS:NE2	2.38	0.56
1:C:3077:THR:O	1:D:2865:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1637:VAL:HG21	1:E:1671:TRP:CG	2.40	0.56
1:E:2478:ARG:NH1	1:E:2482:GLU:OE1	2.39	0.56
1:E:2481:MET:O	1:E:2959:ARG:NH2	2.39	0.56
1:F:2481:MET:O	1:F:2959:ARG:NH2	2.39	0.56
1:A:1126:ILE:O	1:A:1197:ARG:CG	2.53	0.56
1:A:2693:GLN:O	1:A:2697:HIS:ND1	2.33	0.56
1:C:1126:ILE:O	1:C:1197:ARG:CG	2.53	0.56
1:C:2481:MET:O	1:C:2959:ARG:NH2	2.39	0.56
1:C:2521:VAL:HG13	1:C:2529:ARG:NH1	2.20	0.56
1:C:2787:THR:HA	1:C:2790:MET:HG3	1.86	0.56
1:D:1091:LEU:HD13	1:D:1281:ALA:HB3	1.86	0.56
1:A:2303:ASP:OD1	1:A:2303:ASP:N	2.39	0.56
1:A:2881:VAL:HG13	1:A:2885:ASP:HB2	1.88	0.56
1:B:540:ASN:HD21	1:B:544:ILE:HG13	1.71	0.56
1:C:1001:ASP:O	1:C:1002:GLN:CG	2.53	0.56
1:C:2957:PRO:HD3	1:C:2980:PRO:HB3	1.88	0.56
1:E:1618:LEU:HG	1:E:1619:VAL:HG23	1.88	0.56
1:E:2957:PRO:HD3	1:E:2980:PRO:HB3	1.88	0.56
1:A:2481:MET:O	1:A:2959:ARG:NH2	2.39	0.56
1:B:1001:ASP:O	1:B:1002:GLN:CG	2.53	0.56
1:B:2481:MET:O	1:B:2959:ARG:NH2	2.39	0.56
1:C:2303:ASP:OD1	1:C:2303:ASP:N	2.39	0.56
1:E:1001:ASP:O	1:E:1002:GLN:CG	2.53	0.56
1:E:1087:PHE:HB3	1:F:117:LYS:HZ1	1.69	0.56
1:E:1496:SER:HB3	1:E:1578:ASP:HB3	1.88	0.56
1:A:144:GLY:O	1:A:148:THR:N	2.34	0.56
1:A:2731:GLY:HA2	1:F:2845:PHE:CD1	2.39	0.56
1:B:37:ARG:O	1:B:41:GLY:N	2.39	0.56
1:D:490:LEU:HD23	1:D:523:SER:HB2	1.87	0.56
1:D:540:ASN:HD21	1:D:544:ILE:HG13	1.71	0.56
1:D:2481:MET:O	1:D:2959:ARG:NH2	2.39	0.56
1:D:2881:VAL:HG13	1:D:2885:ASP:HB2	1.88	0.56
1:E:490:LEU:HD23	1:E:523:SER:HB2	1.87	0.56
1:E:2743:ALA:HB3	1:E:2939:ALA:HB3	1.89	0.56
1:A:490:LEU:HD23	1:A:523:SER:HB2	1.87	0.55
1:A:924:LEU:HA	1:A:928:ALA:HB3	1.86	0.55
1:A:2962:ASP:OD1	1:A:2962:ASP:N	2.34	0.55
1:B:177:GLU:HB3	1:B:317:LEU:HD13	1.87	0.55
1:B:1538:ARG:NH1	1:B:1722:PRO:HB3	2.18	0.55
1:B:2961:LEU:HD23	1:B:2978:ARG:HB3	1.87	0.55
1:C:1618:LEU:HG	1:C:1619:VAL:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2478:ARG:NH1	1:C:2482:GLU:OE1	2.39	0.55
1:C:2881:VAL:HG13	1:C:2885:ASP:HB2	1.88	0.55
1:D:1511:ASP:H	1:D:1514:ASP:HB2	1.71	0.55
1:D:2983:LEU:HB3	1:D:2987:PHE:O	2.05	0.55
1:F:144:GLY:O	1:F:148:THR:N	2.33	0.55
1:A:177:GLU:HB3	1:A:317:LEU:HD13	1.87	0.55
1:A:1017:ILE:HG23	1:A:1045:VAL:HG21	1.87	0.55
1:A:1496:SER:HB3	1:A:1578:ASP:HB3	1.89	0.55
1:B:2731:GLY:HA2	1:E:2845:PHE:CD1	2.39	0.55
1:C:490:LEU:HD23	1:C:523:SER:HB2	1.87	0.55
1:C:540:ASN:HD21	1:C:544:ILE:HG13	1.71	0.55
1:E:177:GLU:HB3	1:E:317:LEU:HD13	1.87	0.55
1:E:2881:VAL:HG13	1:E:2885:ASP:HB2	1.88	0.55
1:F:868:ARG:HB3	1:F:872:ARG:HH11	1.70	0.55
1:F:2957:PRO:HD3	1:F:2980:PRO:HB3	1.88	0.55
1:A:1511:ASP:H	1:A:1514:ASP:HB2	1.71	0.55
1:B:1420:THR:OG1	1:B:1485:HIS:NE2	2.38	0.55
1:B:2478:ARG:NH1	1:B:2482:GLU:OE1	2.39	0.55
1:C:2704:ALA:O	1:C:2705:LYS:HD3	2.07	0.55
1:D:975:GLU:CG	1:D:976:TRP:N	2.70	0.55
1:D:2303:ASP:N	1:D:2303:ASP:OD1	2.39	0.55
1:D:2478:ARG:NH1	1:D:2482:GLU:OE1	2.39	0.55
1:E:540:ASN:HD21	1:E:544:ILE:HG13	1.71	0.55
1:F:2743:ALA:HB3	1:F:2939:ALA:HB3	1.88	0.55
1:A:975:GLU:CG	1:A:976:TRP:N	2.70	0.55
1:A:2622:GLY:HA2	1:A:2812:LEU:HD11	1.87	0.55
1:A:2810:GLY:HA2	1:A:2896:THR:HA	1.89	0.55
1:B:1496:SER:HB3	1:B:1578:ASP:HB3	1.88	0.55
1:C:33:ALA:O	1:C:37:ARG:N	2.35	0.55
1:E:2339:TRP:HB2	1:E:2398:LEU:HD11	1.86	0.55
1:B:2743:ALA:HB3	1:B:2939:ALA:HB3	1.88	0.55
1:C:2554:ALA:HB1	1:C:2614:LYS:HZ2	1.70	0.55
1:D:551:PRO:HG3	1:D:560:VAL:HG21	1.89	0.55
1:D:2704:ALA:O	1:D:2705:LYS:HD3	2.06	0.55
1:E:1445:VAL:HG23	1:E:1448:ALA:HB2	1.87	0.55
1:E:2704:ALA:O	1:E:2705:LYS:HD3	2.07	0.55
1:E:2810:GLY:HA2	1:E:2896:THR:HA	1.89	0.55
1:F:1420:THR:OG1	1:F:1485:HIS:NE2	2.39	0.55
1:A:2704:ALA:O	1:A:2705:LYS:HD3	2.07	0.55
1:B:975:GLU:CG	1:B:976:TRP:N	2.70	0.55
1:B:2881:VAL:HG13	1:B:2885:ASP:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:975:GLU:CG	1:C:976:TRP:N	2.69	0.55
1:C:1253:ARG:HG3	1:C:1253:ARG:NH1	2.18	0.55
1:C:2810:GLY:HA2	1:C:2896:THR:HA	1.89	0.55
1:E:1253:ARG:HG3	1:E:1253:ARG:NH1	2.18	0.55
1:E:1734:SER:HA	1:E:1741:LEU:HD11	1.89	0.55
1:F:2478:ARG:NH1	1:F:2482:GLU:OE1	2.39	0.55
1:F:2961:LEU:HD23	1:F:2978:ARG:HB3	1.87	0.55
1:A:2743:ALA:HB3	1:A:2939:ALA:HB3	1.88	0.55
1:A:2983:LEU:HB3	1:A:2987:PHE:O	2.05	0.55
1:B:737:TYR:HE1	1:B:862:VAL:HA	1.72	0.55
1:C:1690:GLU:O	1:C:1694:GLY:N	2.40	0.55
1:D:37:ARG:O	1:D:41:GLY:N	2.39	0.55
1:E:2303:ASP:N	1:E:2303:ASP:OD1	2.39	0.55
1:F:37:ARG:O	1:F:41:GLY:N	2.39	0.55
1:F:475:LEU:O	1:F:479:LEU:N	2.38	0.55
1:F:1496:SER:HB3	1:F:1578:ASP:HB3	1.88	0.55
1:A:580:ARG:HH11	1:A:614:GLY:HA3	1.72	0.55
1:A:1690:GLU:O	1:A:1694:GLY:N	2.40	0.55
1:A:1734:SER:HA	1:A:1741:LEU:HD11	1.89	0.55
1:B:1511:ASP:H	1:B:1514:ASP:HB2	1.70	0.55
1:E:975:GLU:CG	1:E:976:TRP:N	2.70	0.55
1:E:1357:ILE:HG13	1:E:1710:THR:HG21	1.89	0.55
1:E:2458:ALA:HA	1:E:2824:ARG:HD2	1.89	0.55
1:F:1690:GLU:O	1:F:1694:GLY:N	2.40	0.55
1:F:2704:ALA:O	1:F:2705:LYS:HD3	2.07	0.55
1:A:1357:ILE:HG13	1:A:1710:THR:HG21	1.89	0.55
1:C:551:PRO:HG3	1:C:560:VAL:HG21	1.89	0.55
1:D:2417:SER:O	1:D:2421:ASP:N	2.40	0.55
1:F:975:GLU:CG	1:F:976:TRP:N	2.70	0.55
1:A:37:ARG:O	1:A:41:GLY:N	2.39	0.55
1:B:2704:ALA:O	1:B:2705:LYS:HD3	2.07	0.55
1:B:2957:PRO:HD3	1:B:2980:PRO:HB3	1.88	0.55
1:C:2845:PHE:CD1	1:D:2731:GLY:HA2	2.39	0.55
1:D:2743:ALA:HB3	1:D:2939:ALA:HB3	1.88	0.55
1:E:475:LEU:O	1:E:479:LEU:N	2.37	0.55
1:E:2653:VAL:HA	1:E:3051:MET:HE3	1.89	0.55
1:A:2478:ARG:NH1	1:A:2482:GLU:OE1	2.39	0.54
1:B:475:LEU:O	1:B:479:LEU:N	2.37	0.54
1:B:1690:GLU:O	1:B:1694:GLY:N	2.40	0.54
1:D:176:VAL:O	1:D:180:ALA:N	2.36	0.54
1:E:1690:GLU:O	1:E:1694:GLY:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2303:ASP:OD1	1:F:2303:ASP:N	2.39	0.54
1:B:2458:ALA:HA	1:B:2824:ARG:HD2	1.89	0.54
1:D:737:TYR:HE1	1:D:862:VAL:HA	1.72	0.54
1:E:33:ALA:O	1:E:37:ARG:N	2.35	0.54
1:E:737:TYR:HE1	1:E:862:VAL:HA	1.72	0.54
1:F:1618:LEU:HG	1:F:1619:VAL:HG23	1.88	0.54
1:A:2458:ALA:HA	1:A:2824:ARG:HD2	1.89	0.54
1:B:551:PRO:HG3	1:B:560:VAL:HG21	1.89	0.54
1:B:931:VAL:HG13	1:B:933:VAL:CG2	2.37	0.54
1:C:737:TYR:HE1	1:C:862:VAL:HA	1.72	0.54
1:C:763:SER:O	1:C:766:ASP:N	2.41	0.54
1:C:1496:SER:HB3	1:C:1578:ASP:HB3	1.89	0.54
1:D:668:THR:OG1	1:D:698:ILE:HD11	2.08	0.54
1:D:931:VAL:HG23	1:D:933:VAL:CG1	2.37	0.54
1:E:580:ARG:HH11	1:E:614:GLY:HA3	1.73	0.54
1:F:1734:SER:HA	1:F:1741:LEU:HD11	1.89	0.54
1:A:763:SER:O	1:A:766:ASP:N	2.41	0.54
1:A:2653:VAL:HA	1:A:3051:MET:HE3	1.87	0.54
1:B:2860:ALA:HB1	1:B:3005:LEU:HD13	1.90	0.54
1:C:580:ARG:HH11	1:C:614:GLY:HA3	1.73	0.54
1:C:931:VAL:HG13	1:C:933:VAL:CG1	2.37	0.54
1:C:2458:ALA:HA	1:C:2824:ARG:HD2	1.89	0.54
1:D:1690:GLU:O	1:D:1694:GLY:N	2.40	0.54
1:D:1734:SER:HA	1:D:1741:LEU:HD11	1.89	0.54
1:F:540:ASN:HD21	1:F:544:ILE:HG13	1.71	0.54
1:F:2458:ALA:HA	1:F:2824:ARG:HD2	1.89	0.54
1:F:2881:VAL:HG13	1:F:2885:ASP:HB2	1.88	0.54
1:A:551:PRO:HG3	1:A:560:VAL:HG21	1.89	0.54
1:A:1618:LEU:HG	1:A:1619:VAL:HG23	1.88	0.54
1:B:1226:ARG:HB3	1:B:1282:THR:HG21	1.90	0.54
1:C:2631:PRO:HG3	1:C:2649:LEU:HD13	1.90	0.54
1:D:763:SER:O	1:D:766:ASP:N	2.41	0.54
1:D:1496:SER:HB3	1:D:1578:ASP:HB3	1.89	0.54
1:E:1420:THR:OG1	1:E:1485:HIS:NE2	2.38	0.54
1:F:668:THR:OG1	1:F:698:ILE:HD11	2.08	0.54
1:A:1724:TYR:OH	1:B:267:GLU:OE2	2.07	0.54
1:B:668:THR:OG1	1:B:698:ILE:HD11	2.08	0.54
1:C:273:ARG:HD2	1:C:282:VAL:HG12	1.90	0.54
1:C:716:ALA:HA	1:C:719:VAL:HG23	1.90	0.54
1:C:2731:GLY:HA2	1:D:2845:PHE:CD1	2.39	0.54
1:D:580:ARG:HH11	1:D:614:GLY:HA3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2012:GLY:C	1:E:2591:ARG:NH1	2.61	0.54
1:D:2551:PRO:O	1:D:2617:LEU:HB2	2.08	0.54
1:E:668:THR:OG1	1:E:698:ILE:HD11	2.08	0.54
1:A:776:ASP:O	1:A:779:TRP:N	2.31	0.54
1:A:2845:PHE:CD1	1:F:2731:GLY:HA2	2.39	0.54
1:B:1010:LEU:O	1:B:1017:ILE:N	2.29	0.54
1:B:2551:PRO:O	1:B:2617:LEU:HB2	2.08	0.54
1:B:2768:ASP:OD2	1:B:2936:GLY:N	2.41	0.54
1:C:2743:ALA:HB3	1:C:2939:ALA:HB3	1.88	0.54
1:D:273:ARG:HD2	1:D:282:VAL:HG12	1.90	0.54
1:D:2693:GLN:O	1:D:2697:HIS:ND1	2.33	0.54
1:D:2810:GLY:HA2	1:D:2896:THR:HA	1.88	0.54
1:E:368:ILE:HG21	1:E:373:ILE:HG13	1.90	0.54
1:E:551:PRO:HG3	1:E:560:VAL:HG21	1.89	0.54
1:E:2012:GLY:C	1:F:2591:ARG:NH1	2.61	0.54
1:A:1226:ARG:HB3	1:A:1282:THR:HG21	1.90	0.54
1:A:2551:PRO:O	1:A:2617:LEU:HB2	2.08	0.54
1:B:763:SER:O	1:B:766:ASP:N	2.41	0.54
1:B:2012:GLY:C	1:C:2591:ARG:NH1	2.61	0.54
1:B:2492:VAL:HG21	1:B:2527:VAL:HG22	1.90	0.54
1:B:2810:GLY:HA2	1:B:2896:THR:HA	1.88	0.54
1:D:1618:LEU:HG	1:D:1619:VAL:HG23	1.88	0.54
1:E:2551:PRO:O	1:E:2617:LEU:HB2	2.08	0.54
1:F:737:TYR:HE1	1:F:862:VAL:HA	1.72	0.54
1:F:792:ALA:HA	1:F:799:PHE:CE2	2.43	0.54
1:F:1013:THR:CG2	1:F:1014:TRP:N	2.58	0.54
1:A:2492:VAL:HG21	1:A:2527:VAL:HG22	1.90	0.54
1:A:2768:ASP:OD2	1:A:2936:GLY:N	2.41	0.54
1:B:456:GLU:HG2	1:B:486:GLN:HE21	1.73	0.54
1:B:1618:LEU:HG	1:B:1619:VAL:HG23	1.88	0.54
1:B:2303:ASP:N	1:B:2303:ASP:OD1	2.39	0.54
1:B:3018:LEU:O	1:B:3022:GLU:HB2	2.08	0.54
1:C:1151:GLU:HB2	1:C:1179:ALA:HB3	1.90	0.54
1:C:2768:ASP:OD2	1:C:2936:GLY:N	2.41	0.54
1:D:1357:ILE:HG13	1:D:1710:THR:HG21	1.89	0.54
1:D:2860:ALA:HB1	1:D:3005:LEU:HD13	1.90	0.54
1:D:3018:LEU:O	1:D:3022:GLU:HB2	2.08	0.54
1:E:1151:GLU:HB2	1:E:1179:ALA:HB3	1.90	0.54
1:F:580:ARG:HH11	1:F:614:GLY:HA3	1.73	0.54
1:A:624:TYR:HA	1:A:629:TRP:CD1	2.43	0.54
1:A:716:ALA:HA	1:A:719:VAL:HG23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2631:PRO:HG3	1:B:2649:LEU:HD13	1.90	0.54
1:C:624:TYR:HA	1:C:629:TRP:CD1	2.43	0.54
1:C:1580:PRO:O	1:C:1583:SER:OG	2.23	0.54
1:C:1734:SER:HA	1:C:1741:LEU:HD11	1.89	0.54
1:D:716:ALA:HA	1:D:719:VAL:HG23	1.90	0.54
1:E:2246:ALA:C	1:E:2255:ARG:HH12	2.11	0.54
1:F:931:VAL:HG23	1:F:933:VAL:CG1	2.37	0.54
1:F:2860:ALA:HB1	1:F:3005:LEU:HD13	1.90	0.54
1:A:668:THR:OG1	1:A:698:ILE:HD11	2.08	0.53
1:A:737:TYR:HE1	1:A:862:VAL:HA	1.72	0.53
1:A:745:THR:HG23	1:A:834:GLU:HA	1.90	0.53
1:B:273:ARG:HD2	1:B:282:VAL:HG12	1.90	0.53
1:C:1488:VAL:HG12	1:C:1490:ARG:HH11	1.73	0.53
1:C:2614:LYS:HZ1	1:D:2583:PHE:HD1	1.51	0.53
1:D:624:TYR:HA	1:D:629:TRP:CD1	2.43	0.53
1:E:33:ALA:O	1:E:37:ARG:HG2	2.08	0.53
1:E:526:ILE:HD12	1:E:549:PHE:HB3	1.90	0.53
1:E:2860:ALA:HB1	1:E:3005:LEU:HD13	1.90	0.53
1:F:526:ILE:HD12	1:F:549:PHE:HB3	1.90	0.53
1:F:763:SER:O	1:F:766:ASP:N	2.41	0.53
1:F:3018:LEU:O	1:F:3022:GLU:HB2	2.08	0.53
1:A:2012:GLY:C	1:B:2591:ARG:NH1	2.61	0.53
1:A:2591:ARG:NH1	1:C:2012:GLY:C	2.61	0.53
1:B:745:THR:HG23	1:B:834:GLU:HA	1.90	0.53
1:B:1151:GLU:HB2	1:B:1179:ALA:HB3	1.90	0.53
1:C:668:THR:OG1	1:C:698:ILE:HD11	2.08	0.53
1:C:1089:ALA:O	1:C:1091:LEU:N	2.41	0.53
1:D:33:ALA:O	1:D:37:ARG:HG2	2.08	0.53
1:D:745:THR:HG23	1:D:834:GLU:HA	1.90	0.53
1:D:1089:ALA:O	1:D:1091:LEU:N	2.42	0.53
1:D:2246:ALA:C	1:D:2255:ARG:HH12	2.11	0.53
1:E:2417:SER:O	1:E:2421:ASP:N	2.40	0.53
1:E:2631:PRO:HG3	1:E:2649:LEU:HD13	1.90	0.53
1:E:3018:LEU:O	1:E:3022:GLU:HB2	2.08	0.53
1:F:1151:GLU:HB2	1:F:1179:ALA:HB3	1.90	0.53
1:F:1226:ARG:HB3	1:F:1282:THR:HG21	1.90	0.53
1:F:2417:SER:O	1:F:2421:ASP:N	2.40	0.53
1:A:1089:ALA:O	1:A:1091:LEU:N	2.42	0.53
1:A:1323:GLU:N	1:A:1343:LEU:O	2.41	0.53
1:A:2246:ALA:C	1:A:2255:ARG:HH12	2.11	0.53
1:A:2860:ALA:HB1	1:A:3005:LEU:HD13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:526:ILE:HD12	1:B:549:PHE:HB3	1.90	0.53
1:B:2653:VAL:HA	1:B:3051:MET:HE3	1.90	0.53
1:C:456:GLU:HG2	1:C:486:GLN:HE21	1.73	0.53
1:C:2492:VAL:HG21	1:C:2527:VAL:HG22	1.90	0.53
1:D:1425:VAL:HG13	1:D:1474:LEU:HD13	1.91	0.53
1:D:2653:VAL:HA	1:D:3051:MET:HE3	1.91	0.53
1:F:2768:ASP:OD2	1:F:2936:GLY:N	2.41	0.53
1:A:368:ILE:HG21	1:A:373:ILE:HG13	1.90	0.53
1:B:2246:ALA:C	1:B:2255:ARG:HH12	2.12	0.53
1:C:1530:LEU:HD21	1:C:1554:LEU:HD22	1.91	0.53
1:C:2551:PRO:O	1:C:2617:LEU:HB2	2.08	0.53
1:D:2103:TRP:CG	1:D:2919:GLY:O	2.62	0.53
1:E:1323:GLU:N	1:E:1343:LEU:O	2.41	0.53
1:F:551:PRO:HG3	1:F:560:VAL:HG21	1.89	0.53
1:F:1357:ILE:HG13	1:F:1710:THR:HG21	1.89	0.53
1:A:71:GLU:HG2	1:A:142:ARG:NH2	2.24	0.53
1:A:273:ARG:HD2	1:A:282:VAL:HG12	1.90	0.53
1:A:456:GLU:HG2	1:A:486:GLN:HE21	1.73	0.53
1:A:1148:GLU:O	1:A:1150:ALA:N	2.42	0.53
1:B:2103:TRP:CG	1:B:2919:GLY:O	2.62	0.53
1:C:71:GLU:HG2	1:C:142:ARG:NH2	2.24	0.53
1:C:1010:LEU:O	1:C:1017:ILE:N	2.29	0.53
1:D:1420:THR:OG1	1:D:1485:HIS:NE2	2.38	0.53
1:D:2418:GLY:O	1:D:2422:GLU:N	2.40	0.53
1:D:2591:ARG:NH1	1:F:2012:GLY:C	2.61	0.53
1:D:2631:PRO:HG3	1:D:2649:LEU:HD13	1.90	0.53
1:F:2246:ALA:C	1:F:2255:ARG:HH12	2.12	0.53
1:A:588:GLU:HB3	1:A:593:LEU:HD11	1.91	0.53
1:A:931:VAL:HG23	1:A:933:VAL:CG2	2.37	0.53
1:A:1174:VAL:HB	1:A:1188:LEU:HB3	1.91	0.53
1:B:580:ARG:HH11	1:B:614:GLY:HA3	1.72	0.53
1:B:624:TYR:HA	1:B:629:TRP:CD1	2.43	0.53
1:C:2087:GLN:HA	1:C:2090:GLU:CG	2.39	0.53
1:C:2860:ALA:HB1	1:C:3005:LEU:HD13	1.90	0.53
1:D:1226:ARG:HB3	1:D:1282:THR:HG21	1.90	0.53
1:E:1174:VAL:HB	1:E:1188:LEU:HB3	1.91	0.53
1:E:2768:ASP:OD2	1:E:2936:GLY:N	2.41	0.53
1:F:624:TYR:HA	1:F:629:TRP:CD1	2.43	0.53
1:F:1010:LEU:O	1:F:1017:ILE:N	2.30	0.53
1:F:1089:ALA:O	1:F:1091:LEU:N	2.42	0.53
1:F:1530:LEU:HD21	1:F:1554:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2810:GLY:HA2	1:F:2896:THR:HA	1.89	0.53
1:A:2103:TRP:CG	1:A:2919:GLY:O	2.62	0.53
1:B:1148:GLU:O	1:B:1150:ALA:N	2.42	0.53
1:B:1357:ILE:HG13	1:B:1710:THR:HG21	1.89	0.53
1:C:526:ILE:HD12	1:C:549:PHE:HB3	1.90	0.53
1:C:1357:ILE:HG13	1:C:1710:THR:HG21	1.89	0.53
1:C:1425:VAL:HG13	1:C:1474:LEU:HD13	1.91	0.53
1:D:456:GLU:HG2	1:D:486:GLN:HE21	1.73	0.53
1:E:624:TYR:HA	1:E:629:TRP:CD1	2.43	0.53
1:F:273:ARG:HD2	1:F:282:VAL:HG12	1.90	0.53
1:F:2103:TRP:CG	1:F:2919:GLY:O	2.62	0.53
1:F:3080:ARG:HG3	1:F:3080:ARG:NH1	2.09	0.53
1:A:1225:ARG:CG	1:A:1283:ASP:OD1	2.57	0.53
1:A:1425:VAL:HG13	1:A:1474:LEU:HD13	1.91	0.53
1:A:1538:ARG:NH1	1:A:1722:PRO:HB3	2.18	0.53
1:A:1634:ARG:HD2	1:A:1638:PRO:HA	1.91	0.53
1:A:2087:GLN:HA	1:A:2090:GLU:CG	2.39	0.53
1:A:2089:PHE:HA	1:A:2188:ARG:HH11	1.74	0.53
1:B:368:ILE:HG21	1:B:373:ILE:HG13	1.90	0.53
1:D:1530:LEU:HD21	1:D:1554:LEU:HD22	1.91	0.53
1:E:2418:GLY:O	1:E:2422:GLU:N	2.40	0.53
1:F:1148:GLU:O	1:F:1150:ALA:N	2.42	0.53
1:F:1733:ASN:HD22	1:F:1736:ARG:HD2	1.74	0.53
1:F:2631:PRO:HG3	1:F:2649:LEU:HD13	1.90	0.53
1:C:368:ILE:HG21	1:C:373:ILE:HG13	1.90	0.53
1:D:2087:GLN:HA	1:D:2090:GLU:CG	2.39	0.53
1:E:931:VAL:HG13	1:E:933:VAL:CG2	2.37	0.53
1:E:1148:GLU:O	1:E:1150:ALA:N	2.42	0.53
1:E:1425:VAL:HG13	1:E:1474:LEU:HD13	1.91	0.53
1:F:71:GLU:HG2	1:F:142:ARG:NH2	2.24	0.53
1:F:716:ALA:HA	1:F:719:VAL:HG23	1.90	0.53
1:A:3018:LEU:O	1:A:3022:GLU:HB2	2.08	0.53
1:C:745:THR:HG23	1:C:834:GLU:HA	1.90	0.53
1:D:1634:ARG:HD2	1:D:1638:PRO:HA	1.91	0.53
1:D:2740:CYS:HB2	1:D:2998:GLY:HA2	1.91	0.53
1:E:763:SER:O	1:E:766:ASP:N	2.41	0.53
1:E:2492:VAL:HG21	1:E:2527:VAL:HG22	1.90	0.53
1:F:745:THR:HG23	1:F:834:GLU:HA	1.90	0.53
1:A:2737:VAL:HG21	1:F:2715:PRO:HB2	1.91	0.52
1:B:411:PRO:HD2	1:B:1025:VAL:HG11	1.91	0.52
1:B:1089:ALA:O	1:B:1091:LEU:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1734:SER:HA	1:B:1741:LEU:HD11	1.89	0.52
1:C:1174:VAL:HB	1:C:1188:LEU:HB3	1.91	0.52
1:D:1151:GLU:HB2	1:D:1179:ALA:HB3	1.90	0.52
1:E:1226:ARG:HB3	1:E:1282:THR:HG21	1.90	0.52
1:E:1488:VAL:HG12	1:E:1490:ARG:HH11	1.73	0.52
1:E:2215:THR:HG22	1:E:2216:GLU:HG3	1.91	0.52
1:F:208:VAL:HG12	1:F:248:ILE:HG12	1.91	0.52
1:F:1323:GLU:N	1:F:1343:LEU:O	2.41	0.52
1:F:2551:PRO:O	1:F:2617:LEU:HB2	2.08	0.52
1:A:1010:LEU:O	1:A:1017:ILE:N	2.29	0.52
1:B:33:ALA:O	1:B:37:ARG:HG2	2.08	0.52
1:B:1225:ARG:CG	1:B:1283:ASP:OD1	2.57	0.52
1:B:1323:GLU:N	1:B:1343:LEU:O	2.42	0.52
1:C:33:ALA:O	1:C:37:ARG:HG2	2.08	0.52
1:C:3018:LEU:O	1:C:3022:GLU:HB2	2.08	0.52
1:D:961:ARG:NH2	1:D:1196:GLY:O	2.42	0.52
1:D:1323:GLU:N	1:D:1343:LEU:O	2.41	0.52
1:D:2458:ALA:HA	1:D:2824:ARG:HD2	1.89	0.52
1:E:71:GLU:HG2	1:E:142:ARG:NH2	2.24	0.52
1:E:273:ARG:HD2	1:E:282:VAL:HG12	1.90	0.52
1:E:456:GLU:HG2	1:E:486:GLN:HE21	1.73	0.52
1:E:2087:GLN:HA	1:E:2090:GLU:CG	2.39	0.52
1:F:368:ILE:HG21	1:F:373:ILE:HG13	1.90	0.52
1:F:1225:ARG:CG	1:F:1283:ASP:OD1	2.57	0.52
1:A:2215:THR:HG22	1:A:2216:GLU:HG3	1.91	0.52
1:B:961:ARG:NH2	1:B:1196:GLY:O	2.42	0.52
1:B:1733:ASN:HD22	1:B:1736:ARG:HD2	1.74	0.52
1:D:368:ILE:HG21	1:D:373:ILE:HG13	1.90	0.52
1:D:411:PRO:HD2	1:D:1025:VAL:HG11	1.91	0.52
1:D:526:ILE:HD12	1:D:549:PHE:HB3	1.90	0.52
1:E:411:PRO:HD2	1:E:1025:VAL:HG11	1.91	0.52
1:E:1634:ARG:HD2	1:E:1638:PRO:HA	1.91	0.52
1:E:2103:TRP:CG	1:E:2919:GLY:O	2.62	0.52
1:F:456:GLU:HG2	1:F:486:GLN:HE21	1.73	0.52
1:F:588:GLU:HB3	1:F:593:LEU:HD11	1.91	0.52
1:F:1093:PRO:HB3	1:F:1277:HIS:HE1	1.75	0.52
1:F:2087:GLN:HA	1:F:2090:GLU:CG	2.39	0.52
1:F:2492:VAL:HG21	1:F:2527:VAL:HG22	1.90	0.52
1:A:208:VAL:HB	1:A:255:LEU:HD13	1.92	0.52
1:A:930:PRO:CG	1:A:930:PRO:O	2.57	0.52
1:A:1151:GLU:HB2	1:A:1179:ALA:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2631:PRO:HG3	1:A:2649:LEU:HD13	1.90	0.52
1:B:1174:VAL:HB	1:B:1188:LEU:HB3	1.91	0.52
1:B:1488:VAL:HG12	1:B:1490:ARG:HH11	1.73	0.52
1:C:1733:ASN:HD22	1:C:1736:ARG:HD2	1.74	0.52
1:C:2246:ALA:C	1:C:2255:ARG:HH12	2.11	0.52
1:C:2715:PRO:HB2	1:D:2737:VAL:HG21	1.92	0.52
1:E:208:VAL:HG12	1:E:248:ILE:HG12	1.92	0.52
1:E:745:THR:HG23	1:E:834:GLU:HA	1.90	0.52
1:E:1119:THR:O	1:E:1123:PHE:HB2	2.10	0.52
1:F:1488:VAL:HG12	1:F:1490:ARG:HH11	1.73	0.52
1:A:208:VAL:HG12	1:A:248:ILE:HG12	1.92	0.52
1:A:2715:PRO:HB2	1:F:2737:VAL:HG21	1.91	0.52
1:B:400:TRP:CZ3	1:B:636:PRO:HB2	2.45	0.52
1:B:716:ALA:HA	1:B:719:VAL:HG23	1.90	0.52
1:B:2698:GLY:HA3	1:B:2705:LYS:HG3	1.92	0.52
1:B:2808:ARG:HB2	1:B:2895:SER:O	2.10	0.52
1:C:1225:ARG:CG	1:C:1283:ASP:OD1	2.57	0.52
1:C:2808:ARG:HB2	1:C:2895:SER:O	2.10	0.52
1:D:2768:ASP:OD2	1:D:2936:GLY:N	2.41	0.52
1:E:400:TRP:CZ3	1:E:636:PRO:HB2	2.45	0.52
1:E:542:VAL:HG11	1:E:964:VAL:HB	1.92	0.52
1:E:588:GLU:HB3	1:E:593:LEU:HD11	1.91	0.52
1:E:961:ARG:NH2	1:E:1196:GLY:O	2.42	0.52
1:E:2089:PHE:HA	1:E:2188:ARG:HH11	1.74	0.52
1:F:33:ALA:O	1:F:37:ARG:HG2	2.09	0.52
1:F:961:ARG:NH2	1:F:1196:GLY:O	2.42	0.52
1:A:33:ALA:O	1:A:37:ARG:HG2	2.08	0.52
1:A:411:PRO:HD2	1:A:1025:VAL:HG11	1.91	0.52
1:A:542:VAL:HG11	1:A:964:VAL:HB	1.92	0.52
1:B:542:VAL:HG11	1:B:964:VAL:HB	1.92	0.52
1:B:2087:GLN:HA	1:B:2090:GLU:CG	2.39	0.52
1:C:961:ARG:NH2	1:C:1196:GLY:O	2.42	0.52
1:C:2103:TRP:CG	1:C:2919:GLY:O	2.62	0.52
1:D:71:GLU:HG2	1:D:142:ARG:NH2	2.24	0.52
1:D:1148:GLU:O	1:D:1150:ALA:N	2.42	0.52
1:D:2492:VAL:HG21	1:D:2527:VAL:HG22	1.90	0.52
1:E:106:ALA:O	1:E:112:PRO:HD2	2.10	0.52
1:E:930:PRO:CG	1:E:930:PRO:O	2.57	0.52
1:F:931:VAL:HG23	1:F:933:VAL:HG13	1.92	0.52
1:F:1425:VAL:HG13	1:F:1474:LEU:HD13	1.91	0.52
1:A:400:TRP:CZ3	1:A:636:PRO:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:577:GLU:OE2	2:A:4000:FMN:O3'	2.28	0.52
1:A:1110:VAL:HG13	1:A:1172:VAL:HG11	1.92	0.52
1:A:1530:LEU:HD21	1:A:1554:LEU:HD22	1.91	0.52
1:B:2552:ASP:OD1	1:B:2552:ASP:N	2.43	0.52
1:C:144:GLY:O	1:C:148:THR:N	2.34	0.52
1:C:400:TRP:CZ3	1:C:636:PRO:HB2	2.45	0.52
1:C:1148:GLU:O	1:C:1150:ALA:N	2.42	0.52
1:C:1622:PRO:HD3	1:C:1685:LEU:HD21	1.92	0.52
1:D:588:GLU:HB3	1:D:593:LEU:HD11	1.91	0.52
1:D:792:ALA:HA	1:D:799:PHE:CE2	2.43	0.52
1:E:1089:ALA:O	1:E:1091:LEU:N	2.42	0.52
1:E:1093:PRO:HB3	1:E:1277:HIS:HE1	1.75	0.52
1:E:1110:VAL:HG13	1:E:1172:VAL:HG11	1.92	0.52
1:F:206:PRO:HG2	1:F:294:VAL:HA	1.92	0.52
1:F:400:TRP:CZ3	1:F:636:PRO:HB2	2.45	0.52
1:F:2215:THR:HG22	1:F:2216:GLU:HG3	1.91	0.52
1:F:2698:GLY:HA3	1:F:2705:LYS:HG3	1.92	0.52
1:A:1733:ASN:HD22	1:A:1736:ARG:HD2	1.74	0.52
1:B:208:VAL:HB	1:B:255:LEU:HD13	1.92	0.52
1:B:1287:VAL:O	1:B:1291:LYS:HG3	2.10	0.52
1:B:1530:LEU:HD21	1:B:1554:LEU:HD22	1.91	0.52
1:B:2236:LEU:HD23	1:B:2288:HIS:HB2	1.92	0.52
1:C:1226:ARG:HB3	1:C:1282:THR:HG21	1.90	0.52
1:C:2653:VAL:HA	1:C:3051:MET:HE3	1.92	0.52
1:C:2737:VAL:HG21	1:D:2715:PRO:HB2	1.91	0.52
1:C:3080:ARG:HG3	1:C:3080:ARG:NH1	2.09	0.52
1:D:1093:PRO:HB3	1:D:1277:HIS:HE1	1.75	0.52
1:D:1225:ARG:CG	1:D:1283:ASP:OD1	2.57	0.52
1:D:1622:PRO:HD3	1:D:1685:LEU:HD21	1.92	0.52
1:D:2215:THR:HG22	1:D:2216:GLU:HG3	1.91	0.52
1:E:1538:ARG:NH1	1:E:1722:PRO:HB3	2.18	0.52
1:F:1287:VAL:O	1:F:1291:LYS:HG3	2.10	0.52
1:F:2552:ASP:OD1	1:F:2552:ASP:N	2.43	0.52
1:F:2740:CYS:HB2	1:F:2998:GLY:HA2	1.92	0.52
1:A:1164:THR:HA	1:A:1204:THR:O	2.10	0.52
1:A:1695:LEU:HD23	1:B:257:ARG:NH1	2.23	0.52
1:A:2740:CYS:HB2	1:A:2998:GLY:HA2	1.92	0.52
1:B:71:GLU:HG2	1:B:142:ARG:NH2	2.24	0.52
1:B:206:PRO:HG2	1:B:294:VAL:HA	1.92	0.52
1:B:1087:PHE:HB3	1:C:117:LYS:HZ3	1.74	0.52
1:B:2417:SER:O	1:B:2421:ASP:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2089:PHE:HA	1:C:2188:ARG:HH11	1.74	0.52
1:C:3000:GLY:HA3	1:D:2720:ALA:HB1	1.92	0.52
1:E:208:VAL:HB	1:E:255:LEU:HD13	1.92	0.52
1:E:716:ALA:HA	1:E:719:VAL:HG23	1.90	0.52
1:E:1287:VAL:O	1:E:1291:LYS:HG3	2.10	0.52
1:E:2401:ILE:HG23	1:E:2403:ILE:H	1.75	0.52
1:F:336:TRP:CE2	1:F:360:LEU:HD11	2.45	0.52
1:F:1164:THR:HA	1:F:1204:THR:O	2.10	0.52
1:F:2418:GLY:O	1:F:2422:GLU:N	2.41	0.52
1:A:508:GLN:HA	1:A:540:ASN:HB3	1.92	0.52
1:B:208:VAL:HG12	1:B:248:ILE:HG12	1.92	0.52
1:B:405:PRO:HG3	1:B:625:LEU:HG	1.92	0.52
1:B:1110:VAL:HG13	1:B:1172:VAL:HG11	1.92	0.52
1:B:2583:PHE:HD1	1:E:2614:LYS:HZ1	1.51	0.52
1:B:2737:VAL:HG21	1:E:2715:PRO:HB2	1.92	0.52
1:B:2861:LEU:HD13	1:E:3074:LEU:HB2	1.92	0.52
1:C:411:PRO:HD2	1:C:1025:VAL:HG11	1.91	0.52
1:C:588:GLU:HB3	1:C:593:LEU:HD11	1.91	0.52
1:C:1323:GLU:N	1:C:1343:LEU:O	2.41	0.52
1:C:2720:ALA:HB1	1:D:3000:GLY:HA3	1.92	0.52
1:D:208:VAL:HB	1:D:255:LEU:HD13	1.92	0.52
1:D:931:VAL:HG23	1:D:933:VAL:HG13	1.92	0.52
1:D:1488:VAL:HG12	1:D:1490:ARG:HH11	1.73	0.52
1:E:1225:ARG:CG	1:E:1283:ASP:OD1	2.57	0.52
1:E:1530:LEU:HD21	1:E:1554:LEU:HD22	1.91	0.52
1:F:420:LYS:HB3	1:F:641:ASP:OD2	2.10	0.52
1:F:1174:VAL:HB	1:F:1188:LEU:HB3	1.91	0.52
1:F:1634:ARG:HD2	1:F:1638:PRO:HA	1.91	0.52
1:F:2089:PHE:HA	1:F:2188:ARG:HH11	1.74	0.52
1:A:526:ILE:HD12	1:A:549:PHE:HB3	1.90	0.51
1:A:1287:VAL:O	1:A:1291:LYS:HG3	2.10	0.51
1:A:1488:VAL:HG12	1:A:1490:ARG:HH11	1.73	0.51
1:A:1580:PRO:O	1:A:1583:SER:OG	2.22	0.51
1:A:1622:PRO:HD3	1:A:1685:LEU:HD21	1.92	0.51
1:B:336:TRP:CE2	1:B:360:LEU:HD11	2.45	0.51
1:B:1695:LEU:HD23	1:C:257:ARG:NH1	2.23	0.51
1:C:208:VAL:HB	1:C:255:LEU:HD13	1.92	0.51
1:C:1598:GLU:HG2	1:C:1666:ILE:HD13	1.92	0.51
1:C:2552:ASP:N	1:C:2552:ASP:OD1	2.43	0.51
1:C:2698:GLY:HA3	1:C:2705:LYS:HG3	1.92	0.51
1:D:106:ALA:O	1:D:112:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:336:TRP:CE2	1:D:360:LEU:HD11	2.45	0.51
1:D:2089:PHE:HA	1:D:2188:ARG:HH11	1.74	0.51
1:E:931:VAL:HG13	1:E:933:VAL:HG23	1.92	0.51
1:E:1733:ASN:HD22	1:E:1736:ARG:HD2	1.74	0.51
1:E:2690:THR:O	1:E:2693:GLN:HG2	2.11	0.51
1:E:2740:CYS:HB2	1:E:2998:GLY:HA2	1.91	0.51
1:A:2401:ILE:HG23	1:A:2403:ILE:H	1.75	0.51
1:A:2417:SER:O	1:A:2421:ASP:N	2.40	0.51
1:B:1119:THR:O	1:B:1123:PHE:HB2	2.10	0.51
1:B:1634:ARG:HD2	1:B:1638:PRO:HA	1.91	0.51
1:C:106:ALA:O	1:C:112:PRO:HD2	2.10	0.51
1:C:792:ALA:HA	1:C:799:PHE:CE2	2.43	0.51
1:C:1287:VAL:O	1:C:1291:LYS:HG3	2.10	0.51
1:C:1634:ARG:HD2	1:C:1638:PRO:HA	1.91	0.51
1:D:1287:VAL:O	1:D:1291:LYS:HG3	2.10	0.51
1:E:792:ALA:HA	1:E:799:PHE:CE2	2.43	0.51
1:A:206:PRO:HG2	1:A:294:VAL:HA	1.92	0.51
1:A:961:ARG:NH2	1:A:1196:GLY:O	2.42	0.51
1:A:1087:PHE:HB3	1:B:117:LYS:HZ3	1.76	0.51
1:A:2790:MET:HG2	1:A:2809:LEU:HD11	1.93	0.51
1:B:420:LYS:HB3	1:B:641:ASP:OD2	2.10	0.51
1:B:588:GLU:HB3	1:B:593:LEU:HD11	1.91	0.51
1:B:2215:THR:HG22	1:B:2216:GLU:HG3	1.92	0.51
1:C:420:LYS:HB3	1:C:641:ASP:OD2	2.10	0.51
1:D:746:TYR:HA	1:D:749:TRP:HD1	1.76	0.51
1:F:2690:THR:O	1:F:2693:GLN:HG2	2.11	0.51
1:A:746:TYR:HA	1:A:749:TRP:HD1	1.76	0.51
1:A:2418:GLY:O	1:A:2422:GLU:N	2.40	0.51
1:A:2690:THR:O	1:A:2693:GLN:HG2	2.11	0.51
1:A:2720:ALA:HB1	1:F:3000:GLY:HA3	1.92	0.51
1:A:2731:GLY:O	1:F:2846:ALA:N	2.44	0.51
1:B:2089:PHE:HA	1:B:2188:ARG:HH11	1.74	0.51
1:C:1093:PRO:HB3	1:C:1277:HIS:HE1	1.75	0.51
1:D:542:VAL:HG11	1:D:964:VAL:HB	1.92	0.51
1:D:577:GLU:OE2	2:D:4000:FMN:O3'	2.28	0.51
1:D:1110:VAL:HG13	1:D:1172:VAL:HG11	1.92	0.51
1:D:1119:THR:O	1:D:1123:PHE:HB2	2.10	0.51
1:D:1598:GLU:HG2	1:D:1666:ILE:HD13	1.93	0.51
1:E:2236:LEU:HD23	1:E:2288:HIS:HB2	1.92	0.51
1:F:411:PRO:HD2	1:F:1025:VAL:HG11	1.91	0.51
1:A:176:VAL:O	1:A:180:ALA:N	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:LYS:HB3	1:A:641:ASP:OD2	2.10	0.51
1:A:2808:ARG:HB2	1:A:2895:SER:O	2.10	0.51
1:A:2861:LEU:HD13	1:F:3074:LEU:HB2	1.92	0.51
1:B:106:ALA:O	1:B:112:PRO:HD2	2.10	0.51
1:B:577:GLU:OE2	2:B:4000:FMN:O3'	2.28	0.51
1:B:792:ALA:HA	1:B:799:PHE:CE2	2.43	0.51
1:B:1425:VAL:HG13	1:B:1474:LEU:HD13	1.91	0.51
1:C:1164:THR:HA	1:C:1204:THR:O	2.10	0.51
1:C:3074:LEU:HB2	1:D:2861:LEU:HD13	1.92	0.51
1:D:1174:VAL:HB	1:D:1188:LEU:HB3	1.91	0.51
1:A:931:VAL:HG23	1:A:933:VAL:HG23	1.91	0.51
1:A:1317:GLY:H	1:A:1324:VAL:HG12	1.76	0.51
1:A:2753:LYS:HZ2	1:F:2748:GLU:HG2	1.74	0.51
1:A:2846:ALA:N	1:F:2731:GLY:O	2.44	0.51
1:B:1164:THR:HA	1:B:1204:THR:O	2.10	0.51
1:B:1598:GLU:HG2	1:B:1666:ILE:HD13	1.93	0.51
1:D:930:PRO:CG	1:D:930:PRO:O	2.57	0.51
1:D:1164:THR:HA	1:D:1204:THR:O	2.10	0.51
1:F:272:GLU:HB3	1:F:280:GLY:O	2.11	0.51
1:A:257:ARG:NH1	1:C:1695:LEU:HD23	2.23	0.51
1:A:3074:LEU:HB2	1:F:2861:LEU:HD13	1.92	0.51
1:B:2667:THR:HG21	1:B:3058:ARG:HH11	1.76	0.51
1:C:42:GLU:H	1:C:42:GLU:CD	2.14	0.51
1:C:1119:THR:O	1:C:1123:PHE:HB2	2.10	0.51
1:C:2180:LYS:HZ1	1:C:2962:ASP:HB3	1.75	0.51
1:C:2731:GLY:O	1:D:2846:ALA:N	2.44	0.51
1:D:42:GLU:CD	1:D:42:GLU:H	2.14	0.51
1:D:400:TRP:CZ3	1:D:636:PRO:HB2	2.45	0.51
1:D:1733:ASN:HD22	1:D:1736:ARG:HD2	1.74	0.51
1:D:2401:ILE:HG23	1:D:2403:ILE:H	1.76	0.51
1:E:176:VAL:O	1:E:180:ALA:N	2.36	0.51
1:E:336:TRP:CE2	1:E:360:LEU:HD11	2.45	0.51
1:E:420:LYS:HB3	1:E:641:ASP:OD2	2.10	0.51
1:E:577:GLU:OE2	2:E:4000:FMN:O3'	2.28	0.51
1:E:2754:ILE:HA	1:E:2759:ALA:O	2.11	0.51
1:E:2790:MET:HG2	1:E:2809:LEU:HD11	1.93	0.51
1:E:2962:ASP:OD1	1:E:2962:ASP:N	2.34	0.51
1:F:1110:VAL:HG13	1:F:1172:VAL:HG11	1.92	0.51
1:A:1093:PRO:HB3	1:A:1277:HIS:HE1	1.75	0.51
1:A:1119:THR:O	1:A:1123:PHE:HB2	2.10	0.51
1:B:931:VAL:HG13	1:B:933:VAL:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1622:PRO:HD3	1:B:1685:LEU:HD21	1.92	0.51
1:B:2754:ILE:HA	1:B:2759:ALA:O	2.11	0.51
1:B:2846:ALA:N	1:E:2731:GLY:O	2.44	0.51
1:B:3000:GLY:HA3	1:E:2720:ALA:HB1	1.92	0.51
1:C:577:GLU:OE2	2:C:4000:FMN:O3'	2.28	0.51
1:C:746:TYR:HA	1:C:749:TRP:HD1	1.76	0.51
1:C:2215:THR:HG22	1:C:2216:GLU:HG3	1.91	0.51
1:C:2236:LEU:HD23	1:C:2288:HIS:HB2	1.92	0.51
1:D:2754:ILE:HA	1:D:2759:ALA:O	2.11	0.51
1:E:272:GLU:HB3	1:E:280:GLY:O	2.11	0.51
1:E:746:TYR:HA	1:E:749:TRP:HD1	1.76	0.51
1:F:930:PRO:CG	1:F:930:PRO:O	2.57	0.51
1:F:1119:THR:O	1:F:1123:PHE:HB2	2.10	0.51
1:F:1634:ARG:HH11	1:F:1639:ALA:N	2.08	0.51
1:B:42:GLU:CD	1:B:42:GLU:H	2.14	0.51
1:B:2753:LYS:HZ2	1:E:2748:GLU:HG2	1.76	0.51
1:B:2829:LEU:HD21	1:B:3014:PHE:HE2	1.76	0.51
1:C:2740:CYS:HB2	1:C:2998:GLY:HA2	1.91	0.51
1:D:2361:VAL:HG11	1:D:2398:LEU:HD23	1.93	0.51
1:E:508:GLN:HA	1:E:540:ASN:HB3	1.92	0.51
1:E:780:ARG:HD2	1:E:816:LEU:HB3	1.93	0.51
1:E:1164:THR:HA	1:E:1204:THR:O	2.10	0.51
1:E:1622:PRO:HD3	1:E:1685:LEU:HD21	1.92	0.51
1:F:106:ALA:O	1:F:112:PRO:HD2	2.10	0.51
1:F:577:GLU:OE2	2:F:4000:FMN:O3'	2.28	0.51
1:F:2808:ARG:HB2	1:F:2895:SER:O	2.10	0.51
1:A:106:ALA:O	1:A:112:PRO:HD2	2.10	0.51
1:A:1598:GLU:HG2	1:A:1666:ILE:HD13	1.93	0.51
1:A:3000:GLY:HA3	1:F:2720:ALA:HB1	1.92	0.51
1:C:542:VAL:HG11	1:C:964:VAL:HB	1.92	0.51
1:C:1110:VAL:HG13	1:C:1172:VAL:HG11	1.92	0.51
1:C:2690:THR:O	1:C:2693:GLN:HG2	2.11	0.51
1:D:208:VAL:HG12	1:D:248:ILE:HG12	1.92	0.51
1:D:1317:GLY:H	1:D:1324:VAL:HG12	1.76	0.51
1:E:2808:ARG:HB2	1:E:2895:SER:O	2.10	0.51
1:B:1093:PRO:HB3	1:B:1277:HIS:HE1	1.75	0.50
1:C:508:GLN:HA	1:C:540:ASN:HB3	1.92	0.50
1:C:780:ARG:HD2	1:C:816:LEU:HB3	1.93	0.50
1:C:1986:LEU:HA	1:C:1989:PHE:HD2	1.76	0.50
1:C:2401:ILE:HG23	1:C:2403:ILE:H	1.76	0.50
1:D:117:LYS:HZ1	1:F:1087:PHE:HB3	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:272:GLU:HB3	1:D:280:GLY:O	2.11	0.50
1:D:780:ARG:HD2	1:D:816:LEU:HB3	1.93	0.50
1:D:2829:LEU:HD21	1:D:3014:PHE:HE2	1.76	0.50
1:E:2662:SER:HB2	1:E:2833:LEU:HD22	1.93	0.50
1:F:1622:PRO:HD3	1:F:1685:LEU:HD21	1.92	0.50
1:F:2754:ILE:HA	1:F:2759:ALA:O	2.11	0.50
1:A:272:GLU:HB3	1:A:280:GLY:O	2.11	0.50
1:A:1986:LEU:HA	1:A:1989:PHE:HD2	1.77	0.50
1:A:2667:THR:HG21	1:A:3058:ARG:HH11	1.76	0.50
1:A:2698:GLY:HA3	1:A:2705:LYS:HG3	1.92	0.50
1:B:272:GLU:HB3	1:B:280:GLY:O	2.11	0.50
1:B:1380:ALA:HB1	1:B:1474:LEU:HD12	1.93	0.50
1:B:1590:VAL:HG11	1:B:1671:TRP:CD2	2.47	0.50
1:B:2401:ILE:HG23	1:B:2403:ILE:H	1.76	0.50
1:B:2790:MET:HG2	1:B:2809:LEU:HD11	1.93	0.50
1:B:3074:LEU:HB2	1:E:2861:LEU:HD13	1.92	0.50
1:C:930:PRO:CG	1:C:930:PRO:O	2.57	0.50
1:C:2962:ASP:OD1	1:C:2962:ASP:N	2.34	0.50
1:D:206:PRO:HG2	1:D:294:VAL:HA	1.92	0.50
1:D:508:GLN:HA	1:D:540:ASN:HB3	1.92	0.50
1:F:208:VAL:HB	1:F:255:LEU:HD13	1.92	0.50
1:F:405:PRO:HG3	1:F:625:LEU:HG	1.93	0.50
1:F:1331:ILE:HG13	1:F:1336:VAL:HG21	1.94	0.50
1:F:2236:LEU:HD23	1:F:2288:HIS:HB2	1.92	0.50
1:A:336:TRP:CE2	1:A:360:LEU:HD11	2.45	0.50
1:A:2245:VAL:HG13	1:A:2255:ARG:CZ	2.41	0.50
1:B:1012:GLY:C	1:B:1013:THR:HG22	2.32	0.50
1:B:1331:ILE:HG13	1:B:1336:VAL:HG21	1.94	0.50
1:B:2140:VAL:HG22	1:B:2165:ILE:HD12	1.94	0.50
1:B:2662:SER:HB2	1:B:2833:LEU:HD22	1.94	0.50
1:B:2690:THR:O	1:B:2693:GLN:HG2	2.11	0.50
1:B:2740:CYS:HB2	1:B:2998:GLY:HA2	1.91	0.50
1:C:1380:ALA:HB1	1:C:1474:LEU:HD12	1.93	0.50
1:D:420:LYS:HB3	1:D:641:ASP:OD2	2.10	0.50
1:D:2236:LEU:HD23	1:D:2288:HIS:HB2	1.92	0.50
1:D:2667:THR:HG21	1:D:3058:ARG:HH11	1.76	0.50
1:E:940:ARG:CG	1:E:940:ARG:O	2.60	0.50
1:E:1317:GLY:H	1:E:1324:VAL:HG12	1.76	0.50
1:E:1380:ALA:HB1	1:E:1474:LEU:HD12	1.93	0.50
1:E:2140:VAL:HG22	1:E:2165:ILE:HD12	1.94	0.50
1:E:2554:ALA:HB1	1:E:2614:LYS:HZ2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:508:GLN:HA	1:F:540:ASN:HB3	1.92	0.50
1:F:542:VAL:HG11	1:F:964:VAL:HB	1.92	0.50
1:F:2245:VAL:HG13	1:F:2255:ARG:CZ	2.42	0.50
1:A:42:GLU:H	1:A:42:GLU:CD	2.14	0.50
1:A:1331:ILE:HG13	1:A:1336:VAL:HG21	1.94	0.50
1:A:2140:VAL:HG22	1:A:2165:ILE:HD12	1.93	0.50
1:B:930:PRO:CG	1:B:930:PRO:O	2.57	0.50
1:B:2245:VAL:HG13	1:B:2255:ARG:CZ	2.41	0.50
1:C:176:VAL:O	1:C:180:ALA:N	2.36	0.50
1:C:208:VAL:HG12	1:C:248:ILE:HG12	1.92	0.50
1:C:1012:GLY:C	1:C:1013:THR:HG22	2.32	0.50
1:C:1317:GLY:H	1:C:1324:VAL:HG12	1.76	0.50
1:C:1590:VAL:HG11	1:C:1671:TRP:CD2	2.47	0.50
1:C:2662:SER:HB2	1:C:2833:LEU:HD22	1.93	0.50
1:C:2754:ILE:HA	1:C:2759:ALA:O	2.11	0.50
1:D:2808:ARG:HB2	1:D:2895:SER:O	2.10	0.50
1:E:1634:ARG:HH11	1:E:1639:ALA:N	2.08	0.50
1:E:1986:LEU:HA	1:E:1989:PHE:HD2	1.76	0.50
1:E:2056:PHE:CZ	1:E:2180:LYS:HE2	2.47	0.50
1:E:2261:LYS:HA	1:E:2265:TRP:HB2	1.94	0.50
1:E:2667:THR:HG21	1:E:3058:ARG:HH11	1.76	0.50
1:F:780:ARG:HD2	1:F:816:LEU:HB3	1.93	0.50
1:F:1317:GLY:H	1:F:1324:VAL:HG12	1.76	0.50
1:F:1590:VAL:HG11	1:F:1671:TRP:CD2	2.47	0.50
1:B:1580:PRO:O	1:B:1583:SER:OG	2.22	0.50
1:B:2261:LYS:HA	1:B:2265:TRP:HB2	1.94	0.50
1:B:2720:ALA:HB1	1:E:3000:GLY:HA3	1.92	0.50
1:C:405:PRO:HG3	1:C:625:LEU:HG	1.93	0.50
1:C:2753:LYS:HZ2	1:D:2748:GLU:HG2	1.74	0.50
1:D:144:GLY:O	1:D:148:THR:N	2.34	0.50
1:D:1010:LEU:CG	1:D:1017:ILE:HB	2.42	0.50
1:D:1331:ILE:HG13	1:D:1336:VAL:HG21	1.94	0.50
1:D:2698:GLY:HA3	1:D:2705:LYS:HG3	1.92	0.50
1:E:2698:GLY:HA3	1:E:2705:LYS:HG3	1.92	0.50
1:F:746:TYR:HA	1:F:749:TRP:HD1	1.76	0.50
1:A:1010:LEU:CG	1:A:1017:ILE:HB	2.42	0.50
1:A:1380:ALA:HB1	1:A:1474:LEU:HD12	1.93	0.50
1:A:1711:VAL:HA	1:A:1714:LEU:HG	1.94	0.50
1:A:2754:ILE:HA	1:A:2759:ALA:O	2.11	0.50
1:B:1010:LEU:CG	1:B:1017:ILE:HB	2.42	0.50
1:B:2361:VAL:HG11	1:B:2398:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2140:VAL:HG22	1:C:2165:ILE:HD12	1.93	0.50
1:C:2846:ALA:N	1:D:2731:GLY:O	2.44	0.50
1:D:1986:LEU:HA	1:D:1989:PHE:HD2	1.77	0.50
1:D:2245:VAL:HG13	1:D:2255:ARG:CZ	2.41	0.50
1:F:1598:GLU:HG2	1:F:1666:ILE:HD13	1.93	0.50
1:F:2140:VAL:HG22	1:F:2165:ILE:HD12	1.94	0.50
1:A:2236:LEU:HD23	1:A:2288:HIS:HB2	1.92	0.50
1:A:2552:ASP:OD1	1:A:2552:ASP:N	2.43	0.50
1:B:2554:ALA:HB1	1:B:2614:LYS:HZ2	1.76	0.50
1:C:206:PRO:HG2	1:C:294:VAL:HA	1.92	0.50
1:C:2274:LEU:HD23	1:C:2277:ILE:HD12	1.94	0.50
1:C:2361:VAL:HG11	1:C:2398:LEU:HD23	1.93	0.50
1:C:2861:LEU:HD13	1:D:3074:LEU:HB2	1.92	0.50
1:D:405:PRO:HG3	1:D:625:LEU:HG	1.93	0.50
1:E:42:GLU:H	1:E:42:GLU:CD	2.14	0.50
1:E:206:PRO:HG2	1:E:294:VAL:HA	1.92	0.50
1:E:1207:VAL:HG23	1:E:1207:VAL:O	2.12	0.50
1:F:207:MET:HA	1:F:249:THR:HG22	1.94	0.50
1:A:117:LYS:HZ1	1:C:1087:PHE:HB3	1.76	0.50
1:A:780:ARG:HD2	1:A:816:LEU:HB3	1.93	0.50
1:A:1634:ARG:HH11	1:A:1639:ALA:N	2.08	0.50
1:B:940:ARG:CG	1:B:940:ARG:O	2.60	0.50
1:B:1207:VAL:O	1:B:1207:VAL:HG13	2.12	0.50
1:B:1634:ARG:HH11	1:B:1639:ALA:N	2.08	0.50
1:B:2715:PRO:HB2	1:E:2737:VAL:HG21	1.91	0.50
1:C:272:GLU:HB3	1:C:280:GLY:O	2.11	0.50
1:C:336:TRP:CE2	1:C:360:LEU:HD11	2.45	0.50
1:C:2582:GLN:HB3	1:D:2554:ALA:HB2	1.94	0.50
1:D:2690:THR:O	1:D:2693:GLN:HG2	2.11	0.50
1:F:2662:SER:HB2	1:F:2833:LEU:HD22	1.93	0.50
1:F:2790:MET:HG2	1:F:2809:LEU:HD11	1.93	0.50
1:A:405:PRO:HG3	1:A:625:LEU:HG	1.93	0.50
1:A:2582:GLN:HB3	1:F:2554:ALA:HB2	1.94	0.50
1:A:2623:ALA:HB2	1:A:2812:LEU:HD21	1.94	0.50
1:A:2811:PHE:HB3	1:A:2894:THR:HG22	1.94	0.50
1:B:207:MET:HA	1:B:249:THR:HG22	1.94	0.50
1:B:746:TYR:HA	1:B:749:TRP:HD1	1.76	0.50
1:B:1317:GLY:H	1:B:1324:VAL:HG12	1.76	0.50
1:B:2334:HIS:HB3	1:B:2391:LYS:HA	1.94	0.50
1:C:2245:VAL:HG13	1:C:2255:ARG:CZ	2.41	0.50
1:C:2811:PHE:HB3	1:C:2894:THR:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1178:ASN:HB2	1:D:1185:LEU:HD11	1.94	0.50
1:D:2261:LYS:HA	1:D:2265:TRP:HB2	1.94	0.50
1:E:1590:VAL:HG11	1:E:1671:TRP:CD2	2.47	0.50
1:E:2557:LEU:HD22	1:E:2613:ARG:HB2	1.94	0.50
1:F:1010:LEU:CG	1:F:1017:ILE:HB	2.42	0.50
1:F:1380:ALA:HB1	1:F:1474:LEU:HD12	1.93	0.50
1:A:2137:GLU:O	1:A:2163:THR:N	2.30	0.49
1:A:2334:HIS:HB3	1:A:2391:LYS:HA	1.94	0.49
1:B:745:THR:OG1	1:B:834:GLU:O	2.19	0.49
1:B:780:ARG:HD2	1:B:816:LEU:HB3	1.93	0.49
1:B:1178:ASN:HB2	1:B:1185:LEU:HD11	1.94	0.49
1:B:1711:VAL:HA	1:B:1714:LEU:HG	1.93	0.49
1:C:1010:LEU:CG	1:C:1017:ILE:HB	2.42	0.49
1:C:2790:MET:HG2	1:C:2809:LEU:HD11	1.93	0.49
1:D:1087:PHE:HB3	1:E:117:LYS:HZ1	1.76	0.49
1:E:1598:GLU:HG2	1:E:1666:ILE:HD13	1.93	0.49
1:E:2118:LEU:O	1:E:2122:ILE:CG1	2.60	0.49
1:E:2811:PHE:HB3	1:E:2894:THR:HG22	1.94	0.49
1:F:42:GLU:H	1:F:42:GLU:CD	2.15	0.49
1:F:133:GLN:HG2	1:F:355:GLY:HA2	1.94	0.49
1:F:2056:PHE:CZ	1:F:2180:LYS:HE2	2.47	0.49
1:F:2334:HIS:HB3	1:F:2391:LYS:HA	1.94	0.49
1:F:2401:ILE:HG23	1:F:2403:ILE:H	1.76	0.49
1:A:2557:LEU:HD22	1:A:2613:ARG:HB2	1.94	0.49
1:B:133:GLN:HG2	1:B:355:GLY:HA2	1.94	0.49
1:B:2554:ALA:HB2	1:E:2582:GLN:HB3	1.94	0.49
1:C:207:MET:HA	1:C:249:THR:HG22	1.94	0.49
1:C:1207:VAL:HG23	1:C:1207:VAL:O	2.12	0.49
1:C:2056:PHE:CZ	1:C:2180:LYS:HE2	2.47	0.49
1:C:2554:ALA:HB2	1:D:2582:GLN:HB3	1.94	0.49
1:D:1590:VAL:HG11	1:D:1671:TRP:CD2	2.47	0.49
1:D:2137:GLU:O	1:D:2163:THR:N	2.30	0.49
1:D:2274:LEU:HD23	1:D:2277:ILE:HD12	1.94	0.49
1:E:1119:THR:HA	1:E:1123:PHE:CD1	2.48	0.49
1:E:1580:PRO:O	1:E:1583:SER:OG	2.22	0.49
1:F:2653:VAL:HA	1:F:3051:MET:HE3	1.92	0.49
1:F:2811:PHE:HB3	1:F:2894:THR:HG22	1.94	0.49
1:F:3080:ARG:CG	1:F:3080:ARG:NH1	2.72	0.49
1:A:1207:VAL:HG13	1:A:1207:VAL:O	2.12	0.49
1:A:2361:VAL:HG11	1:A:2398:LEU:HD23	1.93	0.49
1:B:1291:LYS:HA	1:B:1344:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1986:LEU:HA	1:B:1989:PHE:HD2	1.76	0.49
1:B:2731:GLY:O	1:E:2846:ALA:N	2.44	0.49
1:D:207:MET:HA	1:D:249:THR:HG22	1.94	0.49
1:D:1207:VAL:HG23	1:D:1207:VAL:O	2.12	0.49
1:D:1380:ALA:HB1	1:D:1474:LEU:HD12	1.94	0.49
1:D:1711:VAL:HA	1:D:1714:LEU:HG	1.94	0.49
1:E:1012:GLY:C	1:E:1013:THR:HG22	2.32	0.49
1:E:1212:ALA:O	1:E:1342:ARG:NH2	2.45	0.49
1:E:1695:LEU:HD23	1:F:257:ARG:NH1	2.23	0.49
1:E:1711:VAL:HA	1:E:1714:LEU:HG	1.94	0.49
1:F:1119:THR:HA	1:F:1123:PHE:CD1	2.48	0.49
1:F:1207:VAL:HG23	1:F:1207:VAL:O	2.12	0.49
1:F:1212:ALA:O	1:F:1342:ARG:NH2	2.45	0.49
1:F:2361:VAL:HG11	1:F:2398:LEU:HD23	1.93	0.49
1:B:144:GLY:O	1:B:148:THR:N	2.34	0.49
1:B:1119:THR:HA	1:B:1123:PHE:CD1	2.48	0.49
1:C:2417:SER:O	1:C:2421:ASP:N	2.40	0.49
1:D:2291:LEU:HD21	1:D:2332:LEU:HD22	1.95	0.49
1:D:2790:MET:HG2	1:D:2809:LEU:HD11	1.93	0.49
1:F:2667:THR:HG21	1:F:3058:ARG:HH11	1.76	0.49
1:A:505:ARG:HA	1:A:508:GLN:HB2	1.94	0.49
1:A:2614:LYS:HZ1	1:F:2583:PHE:HD1	1.52	0.49
1:B:2118:LEU:O	1:B:2122:ILE:CG1	2.60	0.49
1:B:2623:ALA:HB2	1:B:2812:LEU:HD21	1.94	0.49
1:C:931:VAL:HG13	1:C:933:VAL:HG13	1.92	0.49
1:C:1119:THR:HA	1:C:1123:PHE:CD1	2.48	0.49
1:C:1637:VAL:HG21	1:C:1671:TRP:CD2	2.48	0.49
1:D:184:LEU:HB3	1:D:311:TRP:HE3	1.78	0.49
1:D:1010:LEU:O	1:D:1017:ILE:N	2.29	0.49
1:D:2056:PHE:CZ	1:D:2180:LYS:HE2	2.47	0.49
1:E:133:GLN:HG2	1:E:355:GLY:HA2	1.94	0.49
1:E:405:PRO:HG3	1:E:625:LEU:HG	1.93	0.49
1:E:2274:LEU:HD23	1:E:2277:ILE:HD12	1.94	0.49
1:E:2361:VAL:HG11	1:E:2398:LEU:HD23	1.93	0.49
1:E:2503:LYS:HE3	1:E:2505:GLU:OE2	2.13	0.49
1:F:2274:LEU:HD23	1:F:2277:ILE:HD12	1.94	0.49
1:A:2180:LYS:HZ1	1:A:2962:ASP:HB3	1.77	0.49
1:A:2662:SER:HB2	1:A:2833:LEU:HD22	1.93	0.49
1:A:2748:GLU:HG2	1:F:2753:LYS:HZ2	1.78	0.49
1:B:508:GLN:HA	1:B:540:ASN:HB3	1.92	0.49
1:B:2503:LYS:HE3	1:B:2505:GLU:OE2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2820:ILE:HD12	1:B:2822:LEU:HD21	1.95	0.49
1:C:2667:THR:HG21	1:C:3058:ARG:HH11	1.76	0.49
1:D:1119:THR:HA	1:D:1123:PHE:CD1	2.47	0.49
1:D:2557:LEU:HD22	1:D:2613:ARG:HB2	1.94	0.49
1:D:2811:PHE:HB3	1:D:2894:THR:HG22	1.94	0.49
1:E:1178:ASN:HB2	1:E:1185:LEU:HD11	1.94	0.49
1:F:505:ARG:HA	1:F:508:GLN:HB2	1.94	0.49
1:F:745:THR:OG1	1:F:834:GLU:O	2.19	0.49
1:F:1637:VAL:HG21	1:F:1671:TRP:CD2	2.48	0.49
1:F:2261:LYS:HA	1:F:2265:TRP:HB2	1.94	0.49
1:A:1178:ASN:HB2	1:A:1185:LEU:HD11	1.94	0.49
1:B:1212:ALA:O	1:B:1342:ARG:NH2	2.45	0.49
1:B:2418:GLY:O	1:B:2422:GLU:N	2.40	0.49
1:C:1362:MET:HG3	1:C:1430:VAL:HG21	1.95	0.49
1:C:2118:LEU:O	1:C:2122:ILE:CG1	2.60	0.49
1:C:2623:ALA:HB2	1:C:2812:LEU:HD21	1.94	0.49
1:D:305:ILE:HD13	1:D:327:GLU:HG2	1.95	0.49
1:D:656:THR:HG1	1:D:880:HIS:CE1	2.30	0.49
1:D:1362:MET:HG3	1:D:1430:VAL:HG21	1.95	0.49
1:D:1533:VAL:HG13	1:D:1582:HIS:HB2	1.95	0.49
1:D:1695:LEU:HD23	1:E:257:ARG:NH1	2.23	0.49
1:D:2552:ASP:OD1	1:D:2552:ASP:N	2.43	0.49
1:E:184:LEU:HB3	1:E:311:TRP:HE3	1.78	0.49
1:E:2245:VAL:HG13	1:E:2255:ARG:CZ	2.41	0.49
1:F:1178:ASN:HB2	1:F:1185:LEU:HD11	1.94	0.49
1:A:790:ALA:HB3	1:A:826:LEU:HD21	1.95	0.49
1:A:1590:VAL:HG11	1:A:1671:TRP:CD2	2.47	0.49
1:A:2118:LEU:O	1:A:2122:ILE:CG1	2.60	0.49
1:A:2503:LYS:HE3	1:A:2505:GLU:OE2	2.13	0.49
1:B:790:ALA:HB3	1:B:826:LEU:HD21	1.95	0.49
1:C:1711:VAL:HA	1:C:1714:LEU:HG	1.93	0.49
1:D:505:ARG:HA	1:D:508:GLN:HB2	1.94	0.49
1:D:1212:ALA:O	1:D:1342:ARG:NH2	2.45	0.49
1:D:2140:VAL:HG22	1:D:2165:ILE:HD12	1.93	0.49
1:D:2662:SER:HB2	1:D:2833:LEU:HD22	1.93	0.49
1:E:207:MET:HA	1:E:249:THR:HG22	1.94	0.49
1:E:1331:ILE:HG13	1:E:1336:VAL:HG21	1.94	0.49
1:F:176:VAL:O	1:F:180:ALA:N	2.36	0.49
1:F:790:ALA:HB3	1:F:826:LEU:HD21	1.95	0.49
1:F:2503:LYS:HE3	1:F:2505:GLU:OE2	2.13	0.49
1:B:505:ARG:HA	1:B:508:GLN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:868:ARG:HB3	1:B:872:ARG:NH1	2.28	0.49
1:C:505:ARG:HA	1:C:508:GLN:HB2	1.94	0.49
1:C:868:ARG:HB3	1:C:872:ARG:NH1	2.28	0.49
1:C:1533:VAL:HG13	1:C:1582:HIS:HB2	1.95	0.49
1:D:2820:ILE:HD12	1:D:2822:LEU:HD21	1.95	0.49
1:E:2829:LEU:HD21	1:E:3014:PHE:HE2	1.76	0.49
1:A:1111:PHE:HE1	1:A:1129:LEU:HD11	1.78	0.49
1:A:1362:MET:HG3	1:A:1430:VAL:HG21	1.95	0.49
1:A:2554:ALA:HB2	1:F:2582:GLN:HB3	1.94	0.49
1:C:361:THR:HG21	1:C:377:PRO:HG3	1.95	0.49
1:C:1133:VAL:O	1:C:1193:ALA:N	2.42	0.49
1:C:1331:ILE:HG13	1:C:1336:VAL:HG21	1.94	0.49
1:C:1435:VAL:HG22	1:C:1703:ILE:HD12	1.95	0.49
1:C:2291:LEU:HD21	1:C:2332:LEU:HD22	1.95	0.49
1:D:133:GLN:HG2	1:D:355:GLY:HA2	1.94	0.49
1:D:361:THR:HG21	1:D:377:PRO:HG3	1.95	0.49
1:D:2927:GLN:HE22	1:D:2941:PHE:C	2.17	0.49
1:E:505:ARG:HA	1:E:508:GLN:HB2	1.94	0.49
1:E:1637:VAL:HG21	1:E:1671:TRP:CD2	2.48	0.49
1:E:2334:HIS:HB3	1:E:2391:LYS:HA	1.94	0.49
1:E:2623:ALA:HB2	1:E:2812:LEU:HD21	1.94	0.49
1:F:940:ARG:CG	1:F:940:ARG:O	2.60	0.49
1:F:1435:VAL:HG22	1:F:1703:ILE:HD12	1.95	0.49
1:F:2820:ILE:HD12	1:F:2822:LEU:HD21	1.95	0.49
1:F:2829:LEU:HD21	1:F:3014:PHE:HE2	1.77	0.49
1:A:184:LEU:HB3	1:A:311:TRP:HE3	1.78	0.48
1:A:2829:LEU:HD21	1:A:3014:PHE:HE2	1.77	0.48
1:A:2848:GLY:H	1:A:3001:HIS:CD2	2.31	0.48
1:B:1435:VAL:HG22	1:B:1703:ILE:HD12	1.95	0.48
1:C:2261:LYS:HA	1:C:2265:TRP:HB2	1.94	0.48
1:C:2334:HIS:HB3	1:C:2391:LYS:HA	1.94	0.48
1:C:2820:ILE:HD12	1:C:2822:LEU:HD21	1.95	0.48
1:C:2829:LEU:HD21	1:C:3014:PHE:HE2	1.76	0.48
1:C:2848:GLY:H	1:C:3001:HIS:CD2	2.31	0.48
1:D:301:LEU:HD13	1:D:330:LEU:HD22	1.96	0.48
1:D:444:ILE:HD12	1:D:655:ALA:HA	1.95	0.48
1:D:790:ALA:HB3	1:D:826:LEU:HD21	1.95	0.48
1:D:2334:HIS:HB3	1:D:2391:LYS:HA	1.94	0.48
1:E:144:GLY:O	1:E:148:THR:N	2.34	0.48
1:E:2088:ARG:O	1:E:2188:ARG:NH1	2.46	0.48
1:F:1533:VAL:HG13	1:F:1582:HIS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1986:LEU:HA	1:F:1989:PHE:HD2	1.76	0.48
1:A:133:GLN:HG2	1:A:355:GLY:HA2	1.94	0.48
1:A:792:ALA:HA	1:A:799:PHE:CE2	2.43	0.48
1:A:868:ARG:HB3	1:A:872:ARG:NH1	2.28	0.48
1:A:1637:VAL:HG21	1:A:1671:TRP:CD2	2.48	0.48
1:A:2274:LEU:HD23	1:A:2277:ILE:HD12	1.94	0.48
1:A:2554:ALA:HB1	1:A:2614:LYS:HD2	1.95	0.48
1:B:444:ILE:HD12	1:B:655:ALA:HA	1.95	0.48
1:B:1996:PRO:O	1:B:2000:LEU:N	2.41	0.48
1:B:2845:PHE:CE1	1:E:2676:SER:HB2	2.49	0.48
1:B:2848:GLY:H	1:B:3001:HIS:CD2	2.31	0.48
1:C:1212:ALA:O	1:C:1342:ARG:NH2	2.45	0.48
1:C:2557:LEU:HD22	1:C:2613:ARG:HB2	1.94	0.48
1:C:2676:SER:HB2	1:D:2845:PHE:CE1	2.49	0.48
1:C:2736:PRO:HG2	1:C:2746:SER:HA	1.96	0.48
1:D:1133:VAL:O	1:D:1193:ALA:N	2.42	0.48
1:D:3065:PRO:O	1:D:3069:GLN:N	2.43	0.48
1:E:790:ALA:HB3	1:E:826:LEU:HD21	1.95	0.48
1:F:1291:LYS:HA	1:F:1344:ALA:HB3	1.95	0.48
1:F:1651:THR:HB	1:F:1656:LYS:HD2	1.95	0.48
1:A:1119:THR:HA	1:A:1123:PHE:CD1	2.47	0.48
1:B:2056:PHE:CZ	1:B:2180:LYS:HE2	2.47	0.48
1:B:2088:ARG:O	1:B:2188:ARG:NH1	2.47	0.48
1:B:2167:THR:HB	1:B:2198:ALA:HB3	1.95	0.48
1:C:184:LEU:HB3	1:C:311:TRP:HE3	1.78	0.48
1:C:1625:LEU:HD11	1:C:1660:LEU:HB3	1.96	0.48
1:C:1634:ARG:HH11	1:C:1639:ALA:N	2.08	0.48
1:C:1651:THR:HB	1:C:1656:LYS:HD2	1.95	0.48
1:C:2503:LYS:HE3	1:C:2505:GLU:OE2	2.13	0.48
1:D:868:ARG:HB3	1:D:872:ARG:NH1	2.28	0.48
1:D:2088:ARG:O	1:D:2188:ARG:NH1	2.47	0.48
1:D:2170:ARG:HB2	1:D:2175:ARG:HG3	1.95	0.48
1:E:1010:LEU:CG	1:E:1017:ILE:HB	2.42	0.48
1:E:1111:PHE:HE1	1:E:1129:LEU:HD11	1.78	0.48
1:E:2094:HIS:O	1:E:2098:THR:HG22	2.14	0.48
1:E:2098:THR:O	1:E:2102:TRP:CG	2.67	0.48
1:E:2554:ALA:HB1	1:E:2614:LYS:HD2	1.95	0.48
1:E:2666:PRO:CB	1:E:2727:VAL:HA	2.44	0.48
1:F:305:ILE:HD13	1:F:327:GLU:HG2	1.95	0.48
1:F:444:ILE:HD12	1:F:655:ALA:HA	1.95	0.48
1:F:2118:LEU:O	1:F:2122:ILE:CG1	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2167:THR:HB	1:F:2198:ALA:HB3	1.96	0.48
1:F:2170:ARG:HB2	1:F:2175:ARG:HG3	1.96	0.48
1:F:2554:ALA:HB1	1:F:2614:LYS:HD2	1.95	0.48
1:A:305:ILE:HD13	1:A:327:GLU:HG2	1.95	0.48
1:A:2058:ASP:OD1	1:A:2058:ASP:N	2.46	0.48
1:A:2094:HIS:O	1:A:2098:THR:HG22	2.13	0.48
1:A:2676:SER:HB2	1:F:2845:PHE:CE1	2.49	0.48
1:B:1103:VAL:HG21	1:B:1269:MET:SD	2.54	0.48
1:D:257:ARG:NH1	1:F:1695:LEU:HD23	2.23	0.48
1:D:1012:GLY:C	1:D:1013:THR:HG22	2.32	0.48
1:D:2736:PRO:HG2	1:D:2746:SER:HA	1.96	0.48
1:E:1625:LEU:HD11	1:E:1660:LEU:HB3	1.96	0.48
1:E:1996:PRO:O	1:E:2000:LEU:N	2.41	0.48
1:E:2291:LEU:HD21	1:E:2332:LEU:HD22	1.95	0.48
1:F:1111:PHE:HE1	1:F:1129:LEU:HD11	1.78	0.48
1:F:1711:VAL:HA	1:F:1714:LEU:HG	1.94	0.48
1:F:2762:VAL:HG22	1:F:2822:LEU:HB2	1.96	0.48
1:F:2926:SER:HB3	1:F:2976:TRP:HH2	1.79	0.48
1:A:207:MET:HA	1:A:249:THR:HG22	1.94	0.48
1:A:444:ILE:HD12	1:A:655:ALA:HA	1.95	0.48
1:B:1637:VAL:HG21	1:B:1671:TRP:CD2	2.48	0.48
1:B:2274:LEU:HD23	1:B:2277:ILE:HD12	1.94	0.48
1:B:2582:GLN:HB3	1:E:2554:ALA:HB2	1.94	0.48
1:B:2666:PRO:CB	1:B:2727:VAL:HA	2.44	0.48
1:C:940:ARG:CG	1:C:940:ARG:O	2.60	0.48
1:D:1651:THR:HB	1:D:1656:LYS:HD2	1.95	0.48
1:D:2118:LEU:O	1:D:2122:ILE:CG1	2.60	0.48
1:D:2503:LYS:HE3	1:D:2505:GLU:OE2	2.13	0.48
1:E:1103:VAL:HG21	1:E:1269:MET:SD	2.54	0.48
1:E:1362:MET:HG3	1:E:1430:VAL:HG21	1.95	0.48
1:E:2592:PRO:HA	1:E:2599:TRP:CD1	2.49	0.48
1:F:361:THR:HG21	1:F:377:PRO:HG3	1.95	0.48
1:F:2094:HIS:O	1:F:2098:THR:HG22	2.14	0.48
1:A:1625:LEU:HD11	1:A:1660:LEU:HB3	1.96	0.48
1:A:2088:ARG:O	1:A:2188:ARG:NH1	2.47	0.48
1:A:2261:LYS:HA	1:A:2265:TRP:HB2	1.94	0.48
1:A:2667:THR:HB	1:A:3081:LEU:HD11	1.96	0.48
1:A:2762:VAL:HG22	1:A:2822:LEU:HB2	1.96	0.48
1:B:1533:VAL:HG13	1:B:1582:HIS:HB2	1.95	0.48
1:B:2098:THR:O	1:B:2102:TRP:CG	2.67	0.48
1:B:2554:ALA:HB1	1:B:2614:LYS:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2811:PHE:HB3	1:B:2894:THR:HG22	1.94	0.48
1:C:2098:THR:O	1:C:2102:TRP:CG	2.67	0.48
1:D:184:LEU:HD13	1:D:311:TRP:HB3	1.96	0.48
1:D:1996:PRO:O	1:D:2000:LEU:N	2.41	0.48
1:D:2167:THR:HB	1:D:2198:ALA:HB3	1.96	0.48
1:E:868:ARG:HB3	1:E:872:ARG:NH1	2.28	0.48
1:E:2060:TRP:HZ2	1:E:2966:ASP:HA	1.79	0.48
1:E:2645:ASP:OD1	1:E:2647:VAL:HG23	2.14	0.48
1:E:2926:SER:HB3	1:E:2976:TRP:HH2	1.79	0.48
1:F:1508:ILE:HB	1:F:1562:ARG:HD3	1.96	0.48
1:F:2557:LEU:HD22	1:F:2613:ARG:HB2	1.94	0.48
1:F:2666:PRO:CB	1:F:2727:VAL:HA	2.44	0.48
1:A:184:LEU:HD13	1:A:311:TRP:HB3	1.96	0.48
1:A:2648:ALA:HA	1:A:2718:VAL:HG13	1.96	0.48
1:A:2926:SER:HB3	1:A:2976:TRP:HH2	1.79	0.48
1:B:501:VAL:HA	1:B:504:LYS:HE2	1.96	0.48
1:B:2170:ARG:HB2	1:B:2175:ARG:HG3	1.96	0.48
1:B:2926:SER:HB3	1:B:2976:TRP:HH2	1.79	0.48
1:C:184:LEU:HD13	1:C:311:TRP:HB3	1.96	0.48
1:C:444:ILE:HD12	1:C:655:ALA:HA	1.95	0.48
1:C:2088:ARG:O	1:C:2188:ARG:NH1	2.47	0.48
1:C:2927:GLN:HE22	1:C:2941:PHE:C	2.17	0.48
1:D:1435:VAL:HG22	1:D:1703:ILE:HD12	1.95	0.48
1:D:1634:ARG:HH11	1:D:1639:ALA:N	2.08	0.48
1:D:1637:VAL:HG21	1:D:1671:TRP:CD2	2.48	0.48
1:D:2180:LYS:NZ	1:D:2962:ASP:HB3	2.29	0.48
1:D:2623:ALA:HB2	1:D:2812:LEU:HD21	1.94	0.48
1:D:2645:ASP:OD1	1:D:2647:VAL:HG23	2.14	0.48
1:F:2180:LYS:NZ	1:F:2962:ASP:HB3	2.29	0.48
1:A:301:LEU:HD13	1:A:330:LEU:HD22	1.96	0.48
1:A:1212:ALA:O	1:A:1342:ARG:NH2	2.45	0.48
1:A:2167:THR:HB	1:A:2198:ALA:HB3	1.96	0.48
1:A:2170:ARG:HB2	1:A:2175:ARG:HG3	1.96	0.48
1:B:361:THR:HG21	1:B:377:PRO:HG3	1.95	0.48
1:B:836:VAL:HG12	1:B:837:VAL:N	2.29	0.48
1:B:1362:MET:HG3	1:B:1430:VAL:HG21	1.95	0.48
1:B:1508:ILE:HB	1:B:1562:ARG:HD3	1.96	0.48
1:B:2557:LEU:HD22	1:B:2613:ARG:HB2	1.94	0.48
1:B:2614:LYS:NZ	1:E:2583:PHE:HB2	2.29	0.48
1:B:2762:VAL:HG22	1:B:2822:LEU:HB2	1.96	0.48
1:C:1103:VAL:HG21	1:C:1269:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2845:PHE:CE1	1:D:2676:SER:HB2	2.49	0.48
1:D:1467:VAL:HA	1:D:1605:LYS:HD2	1.96	0.48
1:D:1625:LEU:HD11	1:D:1660:LEU:HB3	1.96	0.48
1:D:2094:HIS:O	1:D:2098:THR:HG22	2.13	0.48
1:E:1291:LYS:HA	1:E:1344:ALA:HB3	1.95	0.48
1:E:2648:ALA:HA	1:E:2718:VAL:HG13	1.96	0.48
1:E:2667:THR:HB	1:E:3081:LEU:HD11	1.96	0.48
1:E:2848:GLY:H	1:E:3001:HIS:CD2	2.32	0.48
1:E:2927:GLN:HE22	1:E:2941:PHE:C	2.17	0.48
1:F:184:LEU:HB3	1:F:311:TRP:HE3	1.78	0.48
1:F:501:VAL:HA	1:F:504:LYS:HE2	1.96	0.48
1:F:2736:PRO:HG2	1:F:2746:SER:HA	1.96	0.48
1:A:501:VAL:HA	1:A:504:LYS:HE2	1.96	0.48
1:A:836:VAL:HG12	1:A:837:VAL:N	2.29	0.48
1:A:1533:VAL:HG13	1:A:1582:HIS:HB2	1.95	0.48
1:A:2098:THR:O	1:A:2102:TRP:CG	2.67	0.48
1:B:2291:LEU:HD21	1:B:2332:LEU:HD22	1.95	0.48
1:B:2583:PHE:HB2	1:E:2614:LYS:NZ	2.29	0.48
1:B:2645:ASP:OD1	1:B:2647:VAL:HG23	2.14	0.48
1:C:305:ILE:HD13	1:C:327:GLU:HG2	1.95	0.48
1:C:501:VAL:HA	1:C:504:LYS:HE2	1.96	0.48
1:C:836:VAL:HG12	1:C:837:VAL:N	2.29	0.48
1:D:1103:VAL:HG21	1:D:1269:MET:SD	2.54	0.48
1:D:2592:PRO:HA	1:D:2599:TRP:CD1	2.49	0.48
1:E:803:GLU:OE1	1:E:2431:THR:CG2	2.62	0.48
1:E:1533:VAL:HG13	1:E:1582:HIS:HB2	1.95	0.48
1:E:2891:LYS:HZ1	1:E:2903:GLU:HB3	1.78	0.48
1:F:2848:GLY:H	1:F:3001:HIS:CD2	2.31	0.48
1:A:1012:GLY:C	1:A:1013:THR:HG22	2.32	0.48
1:A:2614:LYS:NZ	1:F:2583:PHE:HB2	2.29	0.48
1:A:2666:PRO:CB	1:A:2727:VAL:HA	2.44	0.48
1:B:171:LYS:HE3	1:B:173:ALA:HB3	1.96	0.48
1:C:133:GLN:HG2	1:C:355:GLY:HA2	1.94	0.48
1:C:670:GLY:HA3	1:C:899:ALA:HB2	1.96	0.48
1:C:832:ASP:O	1:C:836:VAL:HG23	2.14	0.48
1:C:2170:ARG:HB2	1:C:2175:ARG:HG3	1.96	0.48
1:C:2926:SER:HB3	1:C:2976:TRP:HH2	1.79	0.48
1:D:1291:LYS:HA	1:D:1344:ALA:HB3	1.95	0.48
1:E:301:LEU:HD13	1:E:330:LEU:HD22	1.96	0.48
1:F:1012:GLY:C	1:F:1013:THR:HG22	2.32	0.48
1:F:2088:ARG:O	1:F:2188:ARG:NH1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2592:PRO:HA	1:F:2599:TRP:CD1	2.49	0.48
1:A:365:ALA:HB3	1:A:366:PRO:HD3	1.96	0.47
1:A:1467:VAL:HA	1:A:1605:LYS:HD2	1.96	0.47
1:A:2056:PHE:CZ	1:A:2180:LYS:HE2	2.47	0.47
1:B:641:ASP:OD1	1:B:641:ASP:N	2.47	0.47
1:B:1467:VAL:HA	1:B:1605:LYS:HD2	1.96	0.47
1:B:2592:PRO:HA	1:B:2599:TRP:CD1	2.49	0.47
1:C:171:LYS:HE3	1:C:173:ALA:HB3	1.96	0.47
1:C:1178:ASN:HB2	1:C:1185:LEU:HD11	1.94	0.47
1:C:1291:LYS:HA	1:C:1344:ALA:HB3	1.95	0.47
1:C:1996:PRO:O	1:C:2000:LEU:N	2.41	0.47
1:C:2000:LEU:HD12	1:F:2000:LEU:HD12	1.96	0.47
1:C:2843:GLN:HG2	1:C:2845:PHE:CZ	2.49	0.47
1:D:2848:GLY:H	1:D:3001:HIS:CD2	2.31	0.47
1:E:361:THR:HG21	1:E:377:PRO:HG3	1.95	0.47
1:E:2843:GLN:HG2	1:E:2845:PHE:CZ	2.49	0.47
1:F:808:ALA:HB3	1:F:811:ASP:HB2	1.96	0.47
1:F:1996:PRO:O	1:F:2000:LEU:N	2.41	0.47
1:F:2667:THR:HB	1:F:3081:LEU:HD11	1.96	0.47
1:A:782:ARG:HD3	1:A:853:LEU:HD22	1.96	0.47
1:A:2348:GLN:O	1:A:2416:MET:HG3	2.15	0.47
1:A:2843:GLN:HG2	1:A:2845:PHE:CZ	2.49	0.47
1:A:2927:GLN:HE22	1:A:2941:PHE:C	2.17	0.47
1:B:184:LEU:HB3	1:B:311:TRP:HE3	1.78	0.47
1:B:936:ARG:O	1:B:941:ARG:N	2.44	0.47
1:B:2728:GLY:HA2	1:E:2848:GLY:HA2	1.97	0.47
1:B:2884:ASP:HA	1:B:2916:ARG:NH1	2.30	0.47
1:C:301:LEU:HD13	1:C:330:LEU:HD22	1.96	0.47
1:C:585:HIS:HD2	1:C:586:SER:H	1.62	0.47
1:C:808:ALA:HB3	1:C:811:ASP:HB2	1.96	0.47
1:C:2614:LYS:NZ	1:D:2583:PHE:HB2	2.29	0.47
1:C:2614:LYS:HG3	1:D:2583:PHE:HB2	1.97	0.47
1:C:2645:ASP:OD1	1:C:2647:VAL:HG23	2.13	0.47
1:D:1111:PHE:HE1	1:D:1129:LEU:HD11	1.78	0.47
1:D:2461:VAL:HG21	1:D:2751:VAL:HG13	1.96	0.47
1:D:2666:PRO:CB	1:D:2727:VAL:HA	2.44	0.47
1:D:3080:ARG:HG3	1:D:3080:ARG:NH1	2.09	0.47
1:E:171:LYS:HE3	1:E:173:ALA:HB3	1.96	0.47
1:E:305:ILE:HD13	1:E:327:GLU:HG2	1.95	0.47
1:E:365:ALA:HB3	1:E:366:PRO:HD3	1.97	0.47
1:E:832:ASP:O	1:E:836:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1435:VAL:HG22	1:E:1703:ILE:HD12	1.95	0.47
1:E:2762:VAL:HG22	1:E:2822:LEU:HB2	1.96	0.47
1:E:2820:ILE:HD12	1:E:2822:LEU:HD21	1.95	0.47
1:F:868:ARG:HB3	1:F:872:ARG:NH1	2.28	0.47
1:F:1590:VAL:HG11	1:F:1671:TRP:CE2	2.49	0.47
1:F:2352:ILE:HG12	1:F:2412:ALA:HB1	1.96	0.47
1:F:2623:ALA:HB2	1:F:2812:LEU:HD21	1.94	0.47
1:A:361:THR:HG21	1:A:377:PRO:HG3	1.95	0.47
1:A:683:GLY:CA	1:A:700:ASN:HB2	2.44	0.47
1:A:2180:LYS:NZ	1:A:2962:ASP:HB3	2.29	0.47
1:A:2730:TYR:HH	1:A:3059:ARG:NH1	2.12	0.47
1:A:2845:PHE:CE1	1:F:2676:SER:HB2	2.49	0.47
1:B:305:ILE:HD13	1:B:327:GLU:HG2	1.95	0.47
1:B:647:THR:HG22	1:B:901:ILE:HD11	1.96	0.47
1:B:803:GLU:OE1	1:B:2431:THR:CG2	2.62	0.47
1:B:1276:GLN:HE21	1:B:1292:LEU:HD13	1.79	0.47
1:B:1590:VAL:HG11	1:B:1671:TRP:CE2	2.49	0.47
1:B:1651:THR:HB	1:B:1656:LYS:HD2	1.95	0.47
1:B:2094:HIS:O	1:B:2098:THR:HG22	2.13	0.47
1:C:790:ALA:HB3	1:C:826:LEU:HD21	1.95	0.47
1:C:2210:VAL:HB	1:C:2277:ILE:HD11	1.97	0.47
1:C:2667:THR:HB	1:C:3081:LEU:HD11	1.95	0.47
1:D:641:ASP:OD1	1:D:641:ASP:N	2.47	0.47
1:D:2098:THR:O	1:D:2102:TRP:CG	2.67	0.47
1:D:2376:LEU:HD22	1:D:2392:VAL:HG21	1.96	0.47
1:D:2843:GLN:HG2	1:D:2845:PHE:CZ	2.49	0.47
1:E:674:TRP:CD1	1:E:895:THR:HG21	2.50	0.47
1:E:2170:ARG:HB2	1:E:2175:ARG:HG3	1.95	0.47
1:E:2736:PRO:HG2	1:E:2746:SER:HA	1.96	0.47
1:F:674:TRP:CD1	1:F:895:THR:HG21	2.50	0.47
1:F:832:ASP:O	1:F:836:VAL:HG23	2.14	0.47
1:F:1362:MET:HG3	1:F:1430:VAL:HG21	1.95	0.47
1:A:171:LYS:HE3	1:A:173:ALA:HB3	1.96	0.47
1:A:606:ASN:H	1:A:606:ASN:HD22	1.62	0.47
1:A:1291:LYS:HA	1:A:1344:ALA:HB3	1.95	0.47
1:A:1651:THR:HB	1:A:1656:LYS:HD2	1.96	0.47
1:B:674:TRP:CD1	1:B:895:THR:HG21	2.49	0.47
1:B:2648:ALA:HA	1:B:2718:VAL:HG13	1.96	0.47
1:C:1467:VAL:HA	1:C:1605:LYS:HD2	1.96	0.47
1:C:2094:HIS:O	1:C:2098:THR:HG22	2.13	0.47
1:C:2167:THR:HB	1:C:2198:ALA:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2180:LYS:NZ	1:C:2962:ASP:HB3	2.29	0.47
1:D:782:ARG:HD3	1:D:853:LEU:HD22	1.96	0.47
1:D:997:GLU:HB3	1:D:1009:PRO:CG	2.44	0.47
1:D:2060:TRP:HZ2	1:D:2966:ASP:HA	1.79	0.47
1:D:2252:VAL:HG22	1:D:2255:ARG:NH2	2.30	0.47
1:D:2667:THR:HB	1:D:3081:LEU:HD11	1.96	0.47
1:E:670:GLY:HA3	1:E:899:ALA:HB2	1.96	0.47
1:E:683:GLY:CA	1:E:700:ASN:HB2	2.44	0.47
1:E:808:ALA:HB3	1:E:811:ASP:HB2	1.96	0.47
1:E:1651:THR:HB	1:E:1656:LYS:HD2	1.95	0.47
1:F:670:GLY:HA3	1:F:899:ALA:HB2	1.96	0.47
1:F:2291:LEU:HD21	1:F:2332:LEU:HD22	1.95	0.47
1:A:647:THR:HG22	1:A:901:ILE:HD11	1.96	0.47
1:A:1276:GLN:HE21	1:A:1292:LEU:HD13	1.79	0.47
1:A:2583:PHE:HB2	1:F:2614:LYS:NZ	2.29	0.47
1:A:2820:ILE:HD12	1:A:2822:LEU:HD21	1.95	0.47
1:B:2376:LEU:HD22	1:B:2392:VAL:HG21	1.97	0.47
1:B:2927:GLN:HE22	1:B:2941:PHE:C	2.17	0.47
1:C:141:ALA:O	1:C:145:MET:HB2	2.14	0.47
1:C:803:GLU:OE1	1:C:2431:THR:CG2	2.62	0.47
1:C:997:GLU:HB3	1:C:1009:PRO:CG	2.45	0.47
1:C:1455:VAL:HB	1:C:1480:ARG:HH12	1.80	0.47
1:C:2728:GLY:HA2	1:D:2848:GLY:HA2	1.97	0.47
1:D:2210:VAL:HB	1:D:2277:ILE:HD11	1.96	0.47
1:D:2989:LEU:HD12	1:D:2989:LEU:HA	1.77	0.47
1:E:444:ILE:HD12	1:E:655:ALA:HA	1.95	0.47
1:E:606:ASN:HD22	1:E:606:ASN:H	1.63	0.47
1:E:782:ARG:HD3	1:E:853:LEU:HD22	1.97	0.47
1:E:1276:GLN:HE21	1:E:1292:LEU:HD13	1.79	0.47
1:E:1590:VAL:HG11	1:E:1671:TRP:CE2	2.50	0.47
1:E:2681:THR:O	1:E:2764:ALA:HA	2.15	0.47
1:F:171:LYS:HE3	1:F:173:ALA:HB3	1.96	0.47
1:F:966:PRO:O	1:F:970:ILE:N	2.48	0.47
1:F:1103:VAL:HG21	1:F:1269:MET:SD	2.54	0.47
1:F:1455:VAL:HB	1:F:1480:ARG:HH12	1.80	0.47
1:F:2060:TRP:HZ2	1:F:2966:ASP:HA	1.79	0.47
1:F:2681:THR:O	1:F:2764:ALA:HA	2.15	0.47
1:F:2927:GLN:HE22	1:F:2941:PHE:C	2.17	0.47
1:A:713:ALA:O	1:A:868:ARG:NH2	2.48	0.47
1:A:803:GLU:OE1	1:A:2431:THR:CG2	2.62	0.47
1:A:1103:VAL:HG21	1:A:1269:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2461:VAL:HG21	1:A:2751:VAL:HG13	1.96	0.47
1:A:2884:ASP:HA	1:A:2916:ARG:NH1	2.29	0.47
1:B:301:LEU:HD13	1:B:330:LEU:HD22	1.96	0.47
1:B:997:GLU:HB3	1:B:1009:PRO:CG	2.44	0.47
1:B:2352:ILE:HG12	1:B:2412:ALA:HB1	1.96	0.47
1:B:2676:SER:HB2	1:E:2845:PHE:CE1	2.49	0.47
1:C:674:TRP:CD1	1:C:895:THR:HG21	2.50	0.47
1:C:976:TRP:CG	1:C:976:TRP:O	2.68	0.47
1:C:2060:TRP:HZ2	1:C:2966:ASP:HA	1.79	0.47
1:C:2583:PHE:HB2	1:D:2614:LYS:HG3	1.97	0.47
1:C:2666:PRO:CB	1:C:2727:VAL:HA	2.44	0.47
1:C:2773:GLU:HA	1:C:2776:ILE:HG22	1.97	0.47
1:C:2884:ASP:HA	1:C:2916:ARG:NH1	2.30	0.47
1:C:3065:PRO:O	1:C:3069:GLN:N	2.42	0.47
1:D:674:TRP:CD1	1:D:895:THR:HG21	2.49	0.47
1:D:803:GLU:OE1	1:D:2431:THR:CG2	2.62	0.47
1:D:2648:ALA:HA	1:D:2718:VAL:HG13	1.96	0.47
1:E:647:THR:HG22	1:E:901:ILE:HD11	1.96	0.47
1:E:2180:LYS:NZ	1:E:2962:ASP:HB3	2.29	0.47
1:F:184:LEU:HD13	1:F:311:TRP:HB3	1.96	0.47
1:F:997:GLU:HB3	1:F:1009:PRO:CG	2.44	0.47
1:F:2210:VAL:HB	1:F:2277:ILE:HD11	1.96	0.47
1:F:2843:GLN:HG2	1:F:2845:PHE:CZ	2.49	0.47
1:A:141:ALA:O	1:A:145:MET:HB2	2.15	0.47
1:A:808:ALA:HB3	1:A:811:ASP:HB2	1.96	0.47
1:A:832:ASP:O	1:A:836:VAL:HG23	2.14	0.47
1:A:940:ARG:CG	1:A:940:ARG:O	2.60	0.47
1:A:997:GLU:HB3	1:A:1009:PRO:CG	2.44	0.47
1:A:1695:LEU:HD12	1:A:1695:LEU:HA	1.71	0.47
1:A:1996:PRO:O	1:A:2000:LEU:N	2.41	0.47
1:A:2291:LEU:HD21	1:A:2332:LEU:HD22	1.95	0.47
1:A:2592:PRO:HA	1:A:2599:TRP:CD1	2.49	0.47
1:A:2645:ASP:OD1	1:A:2647:VAL:HG23	2.14	0.47
1:B:184:LEU:HD13	1:B:311:TRP:HB3	1.96	0.47
1:B:778:THR:HG21	1:B:854:GLY:HA3	1.97	0.47
1:B:782:ARG:HD3	1:B:853:LEU:HD22	1.97	0.47
1:B:832:ASP:O	1:B:836:VAL:HG23	2.14	0.47
1:B:1072:TRP:HE1	1:B:1077:VAL:HG22	1.80	0.47
1:B:1111:PHE:HE1	1:B:1129:LEU:HD11	1.78	0.47
1:B:2736:PRO:HG2	1:B:2746:SER:HA	1.96	0.47
1:C:365:ALA:HB3	1:C:366:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:641:ASP:N	1:C:641:ASP:OD1	2.47	0.47
1:C:936:ARG:O	1:C:941:ARG:N	2.44	0.47
1:C:1111:PHE:HE1	1:C:1129:LEU:HD11	1.78	0.47
1:C:1699:ARG:HG3	1:C:1730:GLU:HB3	1.97	0.47
1:C:2252:VAL:HG22	1:C:2255:ARG:NH2	2.30	0.47
1:C:2352:ILE:HG12	1:C:2412:ALA:HB1	1.96	0.47
1:C:2418:GLY:O	1:C:2422:GLU:N	2.40	0.47
1:C:2554:ALA:HB1	1:C:2614:LYS:HD2	1.95	0.47
1:C:2583:PHE:HB2	1:D:2614:LYS:NZ	2.29	0.47
1:C:2592:PRO:HA	1:C:2599:TRP:CD1	2.49	0.47
1:C:2848:GLY:HA2	1:D:2728:GLY:HA2	1.97	0.47
1:D:210:VAL:HG22	1:D:287:PHE:CD1	2.50	0.47
1:D:501:VAL:HA	1:D:504:LYS:HE2	1.96	0.47
1:D:647:THR:HG22	1:D:901:ILE:HD11	1.96	0.47
1:D:713:ALA:O	1:D:868:ARG:NH2	2.48	0.47
1:D:832:ASP:O	1:D:836:VAL:HG23	2.14	0.47
1:D:940:ARG:CG	1:D:940:ARG:O	2.60	0.47
1:D:1276:GLN:HE21	1:D:1292:LEU:HD13	1.79	0.47
1:D:1590:VAL:HG11	1:D:1671:TRP:CE2	2.50	0.47
1:D:2348:GLN:O	1:D:2416:MET:HG3	2.15	0.47
1:E:184:LEU:HD13	1:E:311:TRP:HB3	1.96	0.47
1:E:778:THR:HG21	1:E:854:GLY:HA3	1.97	0.47
1:E:1634:ARG:NH1	1:E:1639:ALA:H	2.11	0.47
1:F:141:ALA:O	1:F:145:MET:HB2	2.15	0.47
1:F:683:GLY:CA	1:F:700:ASN:HB2	2.44	0.47
1:F:713:ALA:O	1:F:868:ARG:NH2	2.48	0.47
1:F:976:TRP:CG	1:F:976:TRP:O	2.68	0.47
1:F:1467:VAL:HA	1:F:1605:LYS:HD2	1.96	0.47
1:F:2098:THR:O	1:F:2102:TRP:CG	2.67	0.47
1:F:2252:VAL:HG22	1:F:2255:ARG:NH2	2.30	0.47
1:F:2770:LEU:HB3	1:F:2815:GLN:HB3	1.97	0.47
1:A:641:ASP:N	1:A:641:ASP:OD1	2.48	0.47
1:B:210:VAL:HG22	1:B:287:PHE:CD1	2.50	0.47
1:B:365:ALA:O	1:B:369:ARG:N	2.42	0.47
1:B:2252:VAL:HG22	1:B:2255:ARG:NH2	2.30	0.47
1:B:2614:LYS:HG3	1:E:2583:PHE:HB2	1.97	0.47
1:C:210:VAL:HG22	1:C:287:PHE:CD1	2.50	0.47
1:C:602:ARG:NH2	1:C:641:ASP:OD1	2.27	0.47
1:C:745:THR:HG22	1:C:747:LEU:H	1.80	0.47
1:C:1072:TRP:HE1	1:C:1077:VAL:HG22	1.80	0.47
1:C:2989:LEU:HD12	1:C:2989:LEU:HA	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:171:LYS:HE3	1:D:173:ALA:HB3	1.96	0.47
1:D:606:ASN:H	1:D:606:ASN:HD22	1.62	0.47
1:D:996:LEU:HA	1:D:1010:LEU:HA	1.97	0.47
1:D:2554:ALA:HB1	1:D:2614:LYS:HD2	1.96	0.47
1:D:2681:THR:O	1:D:2764:ALA:HA	2.15	0.47
1:E:836:VAL:HG12	1:E:837:VAL:N	2.29	0.47
1:E:966:PRO:O	1:E:970:ILE:N	2.48	0.47
1:E:1699:ARG:HG3	1:E:1730:GLU:HB3	1.97	0.47
1:E:2096:VAL:HG23	1:E:2097:ALA:H	1.80	0.47
1:F:301:LEU:HD13	1:F:330:LEU:HD22	1.96	0.47
1:F:518:ASP:HA	1:F:543:GLY:O	2.15	0.47
1:F:782:ARG:HD3	1:F:853:LEU:HD22	1.97	0.47
1:F:2648:ALA:HA	1:F:2718:VAL:HG13	1.96	0.47
1:A:674:TRP:CD1	1:A:895:THR:HG21	2.50	0.47
1:A:745:THR:HG22	1:A:747:LEU:H	1.80	0.47
1:A:1435:VAL:HG22	1:A:1703:ILE:HD12	1.95	0.47
1:A:2060:TRP:HZ2	1:A:2966:ASP:HA	1.79	0.47
1:A:2482:GLU:HG2	1:A:2956:PRO:HB3	1.97	0.47
1:B:966:PRO:O	1:B:970:ILE:N	2.48	0.47
1:B:1625:LEU:HD11	1:B:1660:LEU:HB3	1.95	0.47
1:B:2058:ASP:OD1	1:B:2058:ASP:N	2.46	0.47
1:B:2681:THR:O	1:B:2764:ALA:HA	2.15	0.47
1:C:1590:VAL:HG11	1:C:1671:TRP:CE2	2.50	0.47
1:D:1508:ILE:HB	1:D:1562:ARG:HD3	1.97	0.47
1:D:3080:ARG:CG	1:D:3080:ARG:NH1	2.72	0.47
1:E:141:ALA:O	1:E:145:MET:HB2	2.15	0.47
1:E:210:VAL:HG22	1:E:287:PHE:CD1	2.50	0.47
1:E:1455:VAL:HB	1:E:1480:ARG:HH12	1.80	0.47
1:E:1467:VAL:HA	1:E:1605:LYS:HD2	1.96	0.47
1:E:2167:THR:HB	1:E:2198:ALA:HB3	1.96	0.47
1:E:2348:GLN:O	1:E:2416:MET:HG3	2.15	0.47
1:F:210:VAL:HG22	1:F:287:PHE:CD1	2.50	0.47
1:F:1625:LEU:HD11	1:F:1660:LEU:HB3	1.96	0.47
1:F:2348:GLN:O	1:F:2416:MET:HG3	2.15	0.47
1:F:2645:ASP:OD1	1:F:2647:VAL:HG23	2.13	0.47
1:A:198:ILE:HG12	1:C:1087:PHE:CE1	2.50	0.47
1:A:1699:ARG:HG3	1:A:1730:GLU:HB3	1.97	0.47
1:B:141:ALA:O	1:B:145:MET:HB2	2.15	0.47
1:B:647:THR:OG1	2:B:4000:FMN:O3P	2.27	0.47
1:B:2060:TRP:HZ2	1:B:2966:ASP:HA	1.79	0.47
1:B:2785:ALA:HB1	1:B:2809:LEU:HG	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2648:ALA:HA	1:C:2718:VAL:HG13	1.96	0.47
1:D:670:GLY:HA3	1:D:899:ALA:HB2	1.96	0.47
1:D:966:PRO:O	1:D:970:ILE:N	2.48	0.47
1:D:1072:TRP:HE1	1:D:1077:VAL:HG22	1.80	0.47
1:D:2773:GLU:HA	1:D:2776:ILE:HG22	1.97	0.47
1:D:2926:SER:HB3	1:D:2976:TRP:HH2	1.79	0.47
1:E:996:LEU:HA	1:E:1010:LEU:HA	1.98	0.47
1:E:997:GLU:HB3	1:E:1009:PRO:CG	2.45	0.47
1:F:1072:TRP:HE1	1:F:1077:VAL:HG22	1.80	0.47
1:F:1276:GLN:HE21	1:F:1292:LEU:HD13	1.79	0.47
1:F:2630:ASP:HB3	1:F:2633:VAL:HG23	1.97	0.47
1:F:2800:PHE:CE1	1:F:2812:LEU:HD22	2.50	0.47
1:F:2884:ASP:HA	1:F:2916:ARG:NH1	2.30	0.47
1:A:778:THR:HG21	1:A:854:GLY:HA3	1.97	0.46
1:A:1508:ILE:HB	1:A:1562:ARG:HD3	1.97	0.46
1:A:2352:ILE:HG12	1:A:2412:ALA:HB1	1.96	0.46
1:A:2736:PRO:HG2	1:A:2746:SER:HA	1.96	0.46
1:B:808:ALA:HB3	1:B:811:ASP:HB2	1.96	0.46
1:B:931:VAL:HG13	1:B:934:LEU:N	2.21	0.46
1:B:1450:ALA:N	1:B:1613:ARG:O	2.48	0.46
1:B:2000:LEU:HD12	1:D:2000:LEU:HD12	1.97	0.46
1:B:2482:GLU:HG2	1:B:2956:PRO:HB3	1.97	0.46
1:B:2667:THR:HB	1:B:3081:LEU:HD11	1.96	0.46
1:C:647:THR:HG22	1:C:901:ILE:HD11	1.96	0.46
1:C:1276:GLN:HE21	1:C:1292:LEU:HD13	1.79	0.46
1:C:2376:LEU:HD22	1:C:2392:VAL:HG21	1.97	0.46
1:D:141:ALA:O	1:D:145:MET:HB2	2.15	0.46
1:D:1087:PHE:CE1	1:E:198:ILE:HG12	2.51	0.46
1:D:1723:GLU:C	1:D:1725:SER:H	2.18	0.46
1:D:2762:VAL:HG22	1:D:2822:LEU:HB2	1.96	0.46
1:E:2252:VAL:HG22	1:E:2255:ARG:NH2	2.30	0.46
1:E:2961:LEU:HD22	1:E:2976:TRP:CD1	2.51	0.46
1:F:540:ASN:ND2	1:F:544:ILE:HG13	2.30	0.46
1:F:2785:ALA:HB1	1:F:2809:LEU:HG	1.97	0.46
1:A:1237:ARG:CZ	1:B:95:PRO:HB2	2.46	0.46
1:A:1455:VAL:HB	1:A:1480:ARG:HH12	1.80	0.46
1:A:1619:VAL:HA	1:A:1620:PRO:HD2	1.80	0.46
1:A:2630:ASP:HB3	1:A:2633:VAL:HG23	1.97	0.46
1:A:2681:THR:O	1:A:2764:ALA:HA	2.15	0.46
1:B:2180:LYS:NZ	1:B:2962:ASP:HB3	2.29	0.46
1:B:2252:VAL:HG13	1:B:2255:ARG:HH21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2348:GLN:O	1:B:2416:MET:HG3	2.15	0.46
1:B:2461:VAL:HG21	1:B:2751:VAL:HG13	1.96	0.46
1:B:2961:LEU:HD22	1:B:2976:TRP:CD1	2.50	0.46
1:C:713:ALA:O	1:C:868:ARG:NH2	2.48	0.46
1:C:1346:PRO:HG2	1:C:1699:ARG:HD3	1.97	0.46
1:C:1352:PHE:HA	1:C:1353:PRO:HD3	1.72	0.46
1:C:2630:ASP:HB3	1:C:2633:VAL:HG23	1.97	0.46
1:D:1450:ALA:N	1:D:1613:ARG:O	2.48	0.46
1:D:2610:ARG:NH1	1:D:2700:LEU:HD11	2.25	0.46
1:E:501:VAL:HA	1:E:504:LYS:HE2	1.96	0.46
1:E:1723:GLU:C	1:E:1725:SER:H	2.18	0.46
1:E:2785:ALA:HB1	1:E:2809:LEU:HG	1.97	0.46
1:E:2884:ASP:HA	1:E:2916:ARG:NH1	2.29	0.46
1:F:641:ASP:N	1:F:641:ASP:OD1	2.48	0.46
1:A:768:LYS:HA	1:A:775:LEU:HD11	1.98	0.46
1:A:976:TRP:O	1:A:976:TRP:CG	2.68	0.46
1:A:1094:THR:O	1:A:1288:PRO:HG2	2.15	0.46
1:A:2376:LEU:HD22	1:A:2392:VAL:HG21	1.97	0.46
1:B:94:ARG:HG3	1:B:95:PRO:HD3	1.98	0.46
1:B:1455:VAL:HB	1:B:1480:ARG:HH12	1.80	0.46
1:C:518:ASP:HA	1:C:543:GLY:O	2.15	0.46
1:C:778:THR:HG21	1:C:854:GLY:HA3	1.97	0.46
1:C:996:LEU:HA	1:C:1010:LEU:HA	1.97	0.46
1:C:1723:GLU:C	1:C:1725:SER:H	2.18	0.46
1:C:2252:VAL:HG13	1:C:2255:ARG:HH21	1.80	0.46
1:C:2461:VAL:HG21	1:C:2751:VAL:HG13	1.96	0.46
1:C:2543:PHE:HA	1:C:2624:GLN:HE22	1.81	0.46
1:C:2961:LEU:HD22	1:C:2976:TRP:CD1	2.51	0.46
1:D:94:ARG:HG3	1:D:95:PRO:HD3	1.98	0.46
1:E:540:ASN:ND2	1:E:544:ILE:HG13	2.30	0.46
1:E:713:ALA:O	1:E:868:ARG:NH2	2.48	0.46
1:E:976:TRP:CG	1:E:976:TRP:O	2.68	0.46
1:E:1508:ILE:HB	1:E:1562:ARG:HD3	1.96	0.46
1:E:2210:VAL:HB	1:E:2277:ILE:HD11	1.97	0.46
1:F:365:ALA:O	1:F:369:ARG:N	2.42	0.46
1:A:365:ALA:O	1:A:369:ARG:N	2.42	0.46
1:A:2000:LEU:HD12	1:E:2000:LEU:HD12	1.96	0.46
1:B:84:GLU:HB2	1:B:85:PRO:HD3	1.97	0.46
1:B:518:ASP:HA	1:B:543:GLY:O	2.15	0.46
1:B:713:ALA:O	1:B:868:ARG:NH2	2.48	0.46
1:B:976:TRP:O	1:B:976:TRP:CG	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1346:PRO:HG2	1:B:1699:ARG:HD3	1.98	0.46
1:B:2770:LEU:HB3	1:B:2815:GLN:HB3	1.97	0.46
1:C:2361:VAL:HG21	1:C:2401:ILE:HD11	1.98	0.46
1:D:534:ASP:O	1:D:538:GLU:HG3	2.16	0.46
1:D:808:ALA:HB3	1:D:811:ASP:HB2	1.96	0.46
1:D:1237:ARG:CZ	1:E:95:PRO:HB2	2.46	0.46
1:D:2884:ASP:HA	1:D:2916:ARG:NH1	2.29	0.46
1:E:406:THR:OG1	1:E:418:GLU:OE1	2.34	0.46
1:E:575:HIS:CD2	1:E:644:LEU:HD22	2.49	0.46
1:E:641:ASP:OD1	1:E:641:ASP:N	2.48	0.46
1:E:684:MET:HG3	1:E:895:THR:HA	1.98	0.46
1:E:2252:VAL:HG13	1:E:2255:ARG:HH21	1.80	0.46
1:E:2543:PHE:HA	1:E:2624:GLN:HE22	1.81	0.46
1:F:745:THR:HG22	1:F:747:LEU:H	1.80	0.46
1:F:836:VAL:HG12	1:F:837:VAL:N	2.29	0.46
1:F:2461:VAL:HG21	1:F:2751:VAL:HG13	1.97	0.46
1:F:2482:GLU:HG2	1:F:2956:PRO:HB3	1.97	0.46
1:F:2543:PHE:HA	1:F:2624:GLN:HE22	1.81	0.46
1:A:210:VAL:HG22	1:A:287:PHE:CD1	2.50	0.46
1:A:745:THR:OG1	1:A:834:GLU:O	2.19	0.46
1:A:1346:PRO:HG2	1:A:1699:ARG:HD3	1.98	0.46
1:A:2252:VAL:HG22	1:A:2255:ARG:NH2	2.30	0.46
1:A:2252:VAL:HG13	1:A:2255:ARG:HH21	1.80	0.46
1:A:2697:HIS:CD2	1:F:2700:LEU:HD22	2.43	0.46
1:A:2724:GLN:HG2	1:F:3001:HIS:CE1	2.51	0.46
1:B:540:ASN:ND2	1:B:544:ILE:HG13	2.30	0.46
1:B:1087:PHE:CE1	1:C:198:ILE:HG12	2.51	0.46
1:B:1319:ASP:HB2	1:B:1342:ARG:NH1	2.31	0.46
1:B:2137:GLU:O	1:B:2163:THR:N	2.30	0.46
1:B:2724:GLN:HG2	1:E:3001:HIS:CE1	2.51	0.46
1:B:2843:GLN:HG2	1:B:2845:PHE:CZ	2.49	0.46
1:B:2978:ARG:NH1	1:B:2979:GLU:OE2	2.49	0.46
1:C:84:GLU:HB2	1:C:85:PRO:HD3	1.97	0.46
1:C:2603:ARG:HH12	1:D:2612:PRO:HD2	1.81	0.46
1:C:2612:PRO:HD2	1:D:2603:ARG:HH12	1.81	0.46
1:D:365:ALA:HB3	1:D:366:PRO:HD3	1.96	0.46
1:D:976:TRP:CG	1:D:976:TRP:O	2.68	0.46
1:D:2252:VAL:HG13	1:D:2255:ARG:HH21	1.80	0.46
1:D:2961:LEU:HD22	1:D:2976:TRP:CD1	2.51	0.46
1:E:1072:TRP:CD1	1:E:1097:VAL:HG22	2.51	0.46
1:E:1325:LEU:HD11	1:E:1343:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2137:GLU:O	1:E:2163:THR:N	2.30	0.46
1:E:2361:VAL:HG21	1:E:2401:ILE:HD11	1.98	0.46
1:E:2769:ASP:OD1	1:E:2770:LEU:N	2.49	0.46
1:E:2773:GLU:HA	1:E:2776:ILE:HG22	1.97	0.46
1:F:205:PRO:CD	1:F:289:PRO:HB3	2.46	0.46
1:F:365:ALA:HB3	1:F:366:PRO:HD3	1.97	0.46
1:F:606:ASN:H	1:F:606:ASN:HD22	1.62	0.46
1:F:768:LYS:HA	1:F:775:LEU:HD11	1.97	0.46
1:F:803:GLU:OE1	1:F:2431:THR:CG2	2.62	0.46
1:A:518:ASP:HA	1:A:543:GLY:O	2.15	0.46
1:A:966:PRO:O	1:A:970:ILE:N	2.48	0.46
1:A:1590:VAL:HG11	1:A:1671:TRP:CE2	2.50	0.46
1:A:2961:LEU:HD22	1:A:2976:TRP:CD1	2.50	0.46
1:B:670:GLY:HA3	1:B:899:ALA:HB2	1.96	0.46
1:B:683:GLY:CA	1:B:700:ASN:HB2	2.44	0.46
1:B:768:LYS:HA	1:B:775:LEU:HD11	1.98	0.46
1:B:2848:GLY:HA2	1:E:2728:GLY:HA2	1.97	0.46
1:C:111:GLU:HB2	1:C:112:PRO:HD3	1.98	0.46
1:C:167:ALA:HB3	1:C:178:LEU:HD21	1.98	0.46
1:C:684:MET:HG3	1:C:895:THR:HA	1.98	0.46
1:C:768:LYS:HA	1:C:775:LEU:HD11	1.97	0.46
1:C:1072:TRP:CD1	1:C:1097:VAL:HG22	2.51	0.46
1:C:2348:GLN:O	1:C:2416:MET:HG3	2.15	0.46
1:D:222:LEU:HD21	1:D:236:VAL:HA	1.97	0.46
1:D:1094:THR:O	1:D:1288:PRO:HG2	2.15	0.46
1:D:1319:ASP:HB2	1:D:1342:ARG:NH1	2.31	0.46
1:E:518:ASP:HA	1:E:543:GLY:O	2.15	0.46
1:E:2630:ASP:HB3	1:E:2633:VAL:HG23	1.97	0.46
1:E:2978:ARG:NH1	1:E:2979:GLU:OE2	2.49	0.46
1:F:167:ALA:HB3	1:F:178:LEU:HD21	1.98	0.46
1:F:585:HIS:HD2	1:F:586:SER:H	1.62	0.46
1:F:602:ARG:NH2	1:F:641:ASP:OD1	2.27	0.46
1:F:1072:TRP:CD1	1:F:1097:VAL:HG22	2.51	0.46
1:F:1319:ASP:HB2	1:F:1342:ARG:NH1	2.31	0.46
1:F:2773:GLU:HA	1:F:2776:ILE:HG22	1.97	0.46
1:A:670:GLY:HA3	1:A:899:ALA:HB2	1.96	0.46
1:B:176:VAL:O	1:B:180:ALA:N	2.36	0.46
1:B:799:PHE:CZ	1:B:2433:ARG:CG	2.99	0.46
1:B:2210:VAL:HB	1:B:2277:ILE:HD11	1.96	0.46
1:B:2630:ASP:HB3	1:B:2633:VAL:HG23	1.97	0.46
1:C:1508:ILE:HB	1:C:1562:ARG:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2946:LEU:HD22	1:C:2994:VAL:HG23	1.98	0.46
1:D:406:THR:OG1	1:D:418:GLU:OE1	2.34	0.46
1:D:518:ASP:HA	1:D:543:GLY:O	2.16	0.46
1:D:575:HIS:CD2	1:D:644:LEU:HD22	2.49	0.46
1:D:768:LYS:HA	1:D:775:LEU:HD11	1.98	0.46
1:D:1455:VAL:HB	1:D:1480:ARG:HH12	1.79	0.46
1:D:2361:VAL:HG21	1:D:2401:ILE:HD11	1.98	0.46
1:E:205:PRO:CD	1:E:289:PRO:HB3	2.46	0.46
1:E:222:LEU:HD21	1:E:236:VAL:HA	1.97	0.46
1:E:799:PHE:CZ	1:E:2433:ARG:CG	2.99	0.46
1:E:2461:VAL:HG21	1:E:2751:VAL:HG13	1.96	0.46
1:E:2790:MET:SD	1:E:2800:PHE:HB2	2.56	0.46
1:F:647:THR:HG22	1:F:901:ILE:HD11	1.96	0.46
1:F:799:PHE:CZ	1:F:2433:ARG:CG	2.99	0.46
1:F:1133:VAL:O	1:F:1193:ALA:N	2.42	0.46
1:F:1325:LEU:HD11	1:F:1343:LEU:HD22	1.98	0.46
1:F:1346:PRO:HG2	1:F:1699:ARG:HD3	1.98	0.46
1:F:1450:ALA:N	1:F:1613:ARG:O	2.47	0.46
1:F:2376:LEU:HD22	1:F:2392:VAL:HG21	1.97	0.46
1:A:1450:ALA:N	1:A:1613:ARG:O	2.48	0.46
1:A:2603:ARG:HH12	1:F:2612:PRO:HD2	1.81	0.46
1:A:2619:ARG:HH12	1:A:2779:GLY:HA2	1.81	0.46
1:A:2728:GLY:HA2	1:F:2848:GLY:HA2	1.97	0.46
1:A:2978:ARG:NH1	1:A:2979:GLU:OE2	2.49	0.46
1:B:277:LEU:HD22	1:B:676:GLY:O	2.16	0.46
1:B:1072:TRP:CD1	1:B:1097:VAL:HG22	2.51	0.46
1:B:1094:THR:O	1:B:1288:PRO:HG2	2.15	0.46
1:B:1723:GLU:C	1:B:1725:SER:H	2.18	0.46
1:B:2773:GLU:HA	1:B:2776:ILE:HG22	1.97	0.46
1:C:540:ASN:ND2	1:C:544:ILE:HG13	2.30	0.46
1:C:575:HIS:CD2	1:C:644:LEU:HD22	2.48	0.46
1:C:1304:LYS:O	1:C:1307:ASP:HB2	2.16	0.46
1:C:2762:VAL:HG22	1:C:2822:LEU:HB2	1.96	0.46
1:C:2845:PHE:HD2	1:C:2860:ALA:HA	1.81	0.46
1:D:745:THR:HG22	1:D:747:LEU:H	1.80	0.46
1:D:2790:MET:SD	1:D:2800:PHE:HB2	2.56	0.46
1:D:2946:LEU:HD22	1:D:2994:VAL:HG23	1.98	0.46
1:E:2352:ILE:HG12	1:E:2412:ALA:HB1	1.96	0.46
1:E:2957:PRO:HB3	1:E:2979:GLU:C	2.36	0.46
1:F:406:THR:OG1	1:F:418:GLU:OE1	2.34	0.46
1:F:778:THR:HG21	1:F:854:GLY:HA3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2252:VAL:HG13	1:F:2255:ARG:HH21	1.81	0.46
1:F:2978:ARG:NH1	1:F:2979:GLU:OE2	2.49	0.46
1:A:111:GLU:HB2	1:A:112:PRO:HD3	1.98	0.46
1:A:1087:PHE:CE1	1:B:198:ILE:HG12	2.51	0.46
1:A:1325:LEU:HD11	1:A:1343:LEU:HD22	1.98	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD21	2.31	0.46
1:B:111:GLU:HB2	1:B:112:PRO:HD3	1.98	0.46
1:B:205:PRO:CD	1:B:289:PRO:HB3	2.46	0.46
1:B:745:THR:HG22	1:B:747:LEU:H	1.80	0.46
1:B:868:ARG:HD3	1:B:872:ARG:HH12	1.81	0.46
1:B:2543:PHE:HA	1:B:2624:GLN:HE22	1.81	0.46
1:C:207:MET:HG3	1:C:292:VAL:HB	1.98	0.46
1:C:222:LEU:HD21	1:C:236:VAL:HA	1.97	0.46
1:C:406:THR:OG1	1:C:418:GLU:OE1	2.34	0.46
1:C:606:ASN:HD22	1:C:606:ASN:H	1.62	0.46
1:C:2096:VAL:HG23	1:C:2097:ALA:H	1.80	0.46
1:C:2790:MET:SD	1:C:2800:PHE:HB2	2.56	0.46
1:D:799:PHE:CZ	1:D:2433:ARG:CG	2.99	0.46
1:D:1634:ARG:NH1	1:D:1639:ALA:H	2.11	0.46
1:D:1699:ARG:HG3	1:D:1730:GLU:HB3	1.97	0.46
1:D:2070:LEU:O	1:D:2074:GLU:HG3	2.16	0.46
1:D:2543:PHE:HA	1:D:2624:GLN:HE22	1.81	0.46
1:D:2630:ASP:HB3	1:D:2633:VAL:HG23	1.97	0.46
1:E:84:GLU:HB2	1:E:85:PRO:HD3	1.97	0.46
1:E:868:ARG:HD3	1:E:872:ARG:HH12	1.81	0.46
1:E:1346:PRO:HG2	1:E:1699:ARG:HD3	1.98	0.46
1:F:1723:GLU:C	1:F:1725:SER:H	2.18	0.46
1:F:2961:LEU:HD22	1:F:2976:TRP:CD1	2.50	0.46
1:A:222:LEU:HD21	1:A:236:VAL:HA	1.97	0.46
1:A:406:THR:OG1	1:A:418:GLU:OE1	2.34	0.46
1:A:2212:TRP:HA	1:A:2229:LYS:HB3	1.98	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD11	2.25	0.46
1:A:2773:GLU:HA	1:A:2776:ILE:HG22	1.97	0.46
1:A:2790:MET:SD	1:A:2800:PHE:HB2	2.56	0.46
1:B:207:MET:HG3	1:B:292:VAL:HB	1.98	0.46
1:B:1352:PHE:HA	1:B:1353:PRO:HD3	1.72	0.46
1:B:2583:PHE:HB2	1:E:2614:LYS:HG3	1.97	0.46
1:B:2610:ARG:NH1	1:B:2700:LEU:HD21	2.31	0.46
1:B:2612:PRO:HD2	1:E:2603:ARG:HH12	1.81	0.46
1:B:2672:TRP:CD1	1:B:2831:MET:HG2	2.51	0.46
1:B:2737:VAL:HG12	1:E:2716:ASN:OD1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2769:ASP:OD1	1:B:2770:LEU:N	2.49	0.46
1:B:2891:LYS:HG3	1:B:2924:ILE:HD13	1.99	0.46
1:C:745:THR:OG1	1:C:834:GLU:O	2.19	0.46
1:C:1702:GLU:OE1	1:C:1712:ALA:N	2.49	0.46
1:C:2957:PRO:HB3	1:C:2979:GLU:C	2.36	0.46
1:C:2978:ARG:NH1	1:C:2979:GLU:OE2	2.49	0.46
1:D:195:ARG:NH1	1:D:198:ILE:HD12	2.31	0.46
1:D:540:ASN:ND2	1:D:544:ILE:HG13	2.30	0.46
1:D:2770:LEU:HB3	1:D:2815:GLN:HB3	1.97	0.46
1:D:2957:PRO:HB3	1:D:2979:GLU:C	2.36	0.46
1:D:2978:ARG:NH1	1:D:2979:GLU:OE2	2.49	0.46
1:E:94:ARG:HG3	1:E:95:PRO:HD3	1.98	0.46
1:E:936:ARG:O	1:E:941:ARG:N	2.45	0.46
1:E:2619:ARG:NH1	1:E:2779:GLY:HA2	2.31	0.46
1:E:2800:PHE:CE1	1:E:2812:LEU:HD22	2.50	0.46
1:F:1699:ARG:HG3	1:F:1730:GLU:HB3	1.97	0.46
1:F:2891:LYS:HG3	1:F:2924:ILE:HD13	1.98	0.46
1:F:2946:LEU:HD22	1:F:2994:VAL:HG23	1.98	0.46
1:F:3065:PRO:O	1:F:3069:GLN:N	2.42	0.46
1:A:94:ARG:HG3	1:A:95:PRO:HD3	1.98	0.45
1:A:534:ASP:O	1:A:538:GLU:HG3	2.16	0.45
1:A:799:PHE:CZ	1:A:2433:ARG:CG	2.99	0.45
1:A:1483:LYS:O	1:A:1487:ILE:HG23	2.17	0.45
1:A:2086:SER:HA	1:A:2089:PHE:CG	2.52	0.45
1:A:2769:ASP:OD1	1:A:2770:LEU:N	2.49	0.45
1:A:2891:LYS:HG3	1:A:2924:ILE:HD13	1.98	0.45
1:A:2957:PRO:HB3	1:A:2979:GLU:C	2.36	0.45
1:B:167:ALA:HB3	1:B:178:LEU:HD21	1.98	0.45
1:B:602:ARG:NH2	1:B:641:ASP:OD1	2.27	0.45
1:B:1699:ARG:HG3	1:B:1730:GLU:HB3	1.97	0.45
1:B:2603:ARG:HH12	1:E:2612:PRO:HD2	1.81	0.45
1:B:2619:ARG:HH12	1:B:2779:GLY:HA2	1.81	0.45
1:B:2845:PHE:HD2	1:B:2860:ALA:HA	1.81	0.45
1:B:2889:ILE:HD11	1:B:2922:LEU:HD22	1.98	0.45
1:C:277:LEU:HD22	1:C:676:GLY:O	2.16	0.45
1:C:868:ARG:HD3	1:C:872:ARG:HH12	1.81	0.45
1:C:1462:ALA:HB2	1:C:1468:TYR:HE1	1.82	0.45
1:C:2610:ARG:NH1	1:C:2700:LEU:HD21	2.31	0.45
1:C:2724:GLN:HG2	1:D:3001:HIS:CE1	2.51	0.45
1:C:2785:ALA:HB1	1:C:2809:LEU:HG	1.97	0.45
1:D:167:ALA:HB3	1:D:178:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:205:PRO:CD	1:D:289:PRO:HB3	2.46	0.45
1:D:2246:ALA:N	1:D:2255:ARG:NH1	2.64	0.45
1:E:534:ASP:O	1:E:538:GLU:HG3	2.16	0.45
1:E:1094:THR:O	1:E:1288:PRO:HG2	2.15	0.45
1:E:1695:LEU:HD12	1:E:1695:LEU:HA	1.70	0.45
1:E:2891:LYS:HG3	1:E:2924:ILE:HD13	1.98	0.45
1:F:868:ARG:HD3	1:F:872:ARG:HH12	1.81	0.45
1:F:1519:VAL:HG13	1:F:1530:LEU:HD23	1.98	0.45
1:F:2070:LEU:O	1:F:2074:GLU:HG3	2.16	0.45
1:F:2086:SER:HA	1:F:2089:PHE:CG	2.52	0.45
1:A:2946:LEU:HD22	1:A:2994:VAL:HG23	1.98	0.45
1:B:47:ALA:O	1:B:353:ASP:HA	2.17	0.45
1:B:406:THR:OG1	1:B:418:GLU:OE1	2.34	0.45
1:B:585:HIS:HD2	1:B:586:SER:H	1.62	0.45
1:B:606:ASN:HD22	1:B:606:ASN:H	1.62	0.45
1:B:2086:SER:HA	1:B:2089:PHE:CG	2.52	0.45
1:B:2716:ASN:OD1	1:E:2737:VAL:HG12	2.16	0.45
1:B:2790:MET:SD	1:B:2800:PHE:HB2	2.56	0.45
1:B:3080:ARG:HG3	1:B:3080:ARG:NH1	2.09	0.45
1:C:205:PRO:CD	1:C:289:PRO:HB3	2.46	0.45
1:C:746:TYR:HB2	1:C:833:ALA:HB1	1.99	0.45
1:C:782:ARG:HD3	1:C:853:LEU:HD22	1.97	0.45
1:C:784:GLU:OE2	1:C:816:LEU:HD21	2.16	0.45
1:C:2482:GLU:HG2	1:C:2956:PRO:HB3	1.97	0.45
1:C:2619:ARG:NH1	1:C:2779:GLY:HA2	2.31	0.45
1:D:351:ILE:HB	1:D:375:ILE:HG12	1.99	0.45
1:D:544:ILE:O	1:D:546:HIS:N	2.41	0.45
1:D:778:THR:HG21	1:D:854:GLY:HA3	1.97	0.45
1:D:836:VAL:HG12	1:D:837:VAL:N	2.29	0.45
1:D:1325:LEU:HD11	1:D:1343:LEU:HD22	1.98	0.45
1:D:2619:ARG:NH1	1:D:2779:GLY:HA2	2.31	0.45
1:E:1237:ARG:CZ	1:F:95:PRO:HB2	2.45	0.45
1:E:2334:HIS:CD2	1:E:2391:LYS:HG3	2.50	0.45
1:E:2889:ILE:HD11	1:E:2922:LEU:HD22	1.98	0.45
1:E:2989:LEU:HD12	1:E:2989:LEU:HA	1.77	0.45
1:F:277:LEU:HD22	1:F:676:GLY:O	2.16	0.45
1:F:534:ASP:O	1:F:538:GLU:HG3	2.16	0.45
1:F:684:MET:HG3	1:F:895:THR:HA	1.98	0.45
1:F:784:GLU:OE2	1:F:816:LEU:HD21	2.16	0.45
1:F:1094:THR:O	1:F:1288:PRO:HG2	2.15	0.45
1:F:1702:GLU:OE1	1:F:1712:ALA:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2096:VAL:HG13	1:F:2097:ALA:H	1.80	0.45
1:F:2246:ALA:N	1:F:2255:ARG:NH1	2.64	0.45
1:F:2790:MET:SD	1:F:2800:PHE:HB2	2.56	0.45
1:A:167:ALA:HB3	1:A:178:LEU:HD21	1.98	0.45
1:A:381:ARG:O	1:A:384:GLN:HG2	2.17	0.45
1:A:585:HIS:CB	1:A:694:ASP:HB2	2.47	0.45
1:A:1284:GLY:HA2	1:A:1343:LEU:HD11	1.99	0.45
1:A:1319:ASP:HB2	1:A:1342:ARG:NH1	2.31	0.45
1:A:1612:GLY:N	1:A:1623:PHE:O	2.48	0.45
1:A:2848:GLY:HA2	1:F:2728:GLY:HA2	1.97	0.45
1:B:365:ALA:HB3	1:B:366:PRO:HD3	1.96	0.45
1:B:684:MET:HG3	1:B:895:THR:HA	1.98	0.45
1:B:1462:ALA:HB2	1:B:1468:TYR:HE1	1.81	0.45
1:B:1612:GLY:N	1:B:1623:PHE:O	2.48	0.45
1:B:2234:PRO:HB2	1:B:2287:LEU:HD13	1.98	0.45
1:B:3001:HIS:CE1	1:E:2724:GLN:HG2	2.51	0.45
1:C:1488:VAL:HB	1:C:1579:VAL:HG22	1.99	0.45
1:C:2234:PRO:HB2	1:C:2287:LEU:HD13	1.98	0.45
1:C:2702:GLY:HA3	1:D:2557:LEU:CG	2.45	0.45
1:D:47:ALA:O	1:D:353:ASP:HA	2.17	0.45
1:D:277:LEU:HD22	1:D:676:GLY:O	2.16	0.45
1:D:1612:GLY:N	1:D:1623:PHE:O	2.48	0.45
1:D:2234:PRO:HB2	1:D:2287:LEU:HD13	1.98	0.45
1:D:2352:ILE:HG12	1:D:2412:ALA:HB1	1.96	0.45
1:E:167:ALA:HB3	1:E:178:LEU:HD21	1.98	0.45
1:E:745:THR:HG22	1:E:747:LEU:H	1.80	0.45
1:E:784:GLU:OE2	1:E:816:LEU:HD21	2.16	0.45
1:E:1319:ASP:HB2	1:E:1342:ARG:NH1	2.31	0.45
1:E:1450:ALA:N	1:E:1613:ARG:O	2.47	0.45
1:E:2610:ARG:NH1	1:E:2700:LEU:HD21	2.31	0.45
1:E:2845:PHE:HD2	1:E:2860:ALA:HA	1.82	0.45
1:F:996:LEU:HA	1:F:1010:LEU:HA	1.97	0.45
1:F:1483:LYS:O	1:F:1487:ILE:HG23	2.17	0.45
1:F:1660:LEU:HD23	1:F:1660:LEU:HA	1.86	0.45
1:F:2212:TRP:HA	1:F:2229:LYS:HB3	1.98	0.45
1:F:2234:PRO:HB2	1:F:2287:LEU:HD13	1.98	0.45
1:A:205:PRO:CD	1:A:289:PRO:HB3	2.46	0.45
1:A:1072:TRP:CD1	1:A:1097:VAL:HG22	2.51	0.45
1:A:1723:GLU:C	1:A:1725:SER:H	2.18	0.45
1:A:2297:ARG:HH22	1:A:2391:LYS:HZ3	1.65	0.45
1:A:2583:PHE:HB2	1:F:2614:LYS:HZ2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2583:PHE:HB2	1:F:2614:LYS:HG3	1.97	0.45
1:A:2619:ARG:NH1	1:A:2779:GLY:HA2	2.31	0.45
1:A:2702:GLY:HA3	1:F:2557:LEU:CG	2.45	0.45
1:B:195:ARG:NH1	1:B:198:ILE:HD12	2.31	0.45
1:B:222:LEU:HD21	1:B:236:VAL:HA	1.97	0.45
1:B:2452:ASP:HA	1:B:3017:ALA:HA	1.99	0.45
1:B:2610:ARG:NH1	1:B:2700:LEU:HD11	2.25	0.45
1:B:2619:ARG:NH1	1:B:2779:GLY:HA2	2.31	0.45
1:B:2946:LEU:HD22	1:B:2994:VAL:HG23	1.98	0.45
1:C:351:ILE:HB	1:C:375:ILE:HG12	1.99	0.45
1:C:683:GLY:CA	1:C:700:ASN:HB2	2.44	0.45
1:C:763:SER:HB3	1:C:766:ASP:HB2	1.99	0.45
1:C:1171:PRO:HA	1:C:1191:ARG:HG2	1.99	0.45
1:C:2681:THR:O	1:C:2764:ALA:HA	2.15	0.45
1:C:2800:PHE:CE1	1:C:2812:LEU:HD22	2.50	0.45
1:C:2891:LYS:HZ2	1:C:2903:GLU:HG2	1.82	0.45
1:D:198:ILE:HG12	1:F:1087:PHE:CE1	2.51	0.45
1:D:207:MET:HG3	1:D:292:VAL:HB	1.98	0.45
1:D:550:LYS:HD3	1:D:577:GLU:OE2	2.17	0.45
1:D:746:TYR:HB2	1:D:833:ALA:HB1	1.99	0.45
1:D:1072:TRP:CD1	1:D:1097:VAL:HG22	2.51	0.45
1:D:1226:ARG:CG	1:D:1313:VAL:HG12	2.47	0.45
1:D:2472:TYR:CZ	1:D:2930:LEU:HD22	2.52	0.45
1:E:222:LEU:HD13	1:E:248:ILE:HD12	1.99	0.45
1:E:1087:PHE:CE1	1:F:198:ILE:HG12	2.51	0.45
1:E:1553:ALA:O	1:E:1557:GLU:HG2	2.17	0.45
1:E:2070:LEU:O	1:E:2074:GLU:HG3	2.16	0.45
1:E:2482:GLU:HG2	1:E:2956:PRO:HB3	1.97	0.45
1:E:3080:ARG:CG	1:E:3080:ARG:NH1	2.72	0.45
1:F:84:GLU:HB2	1:F:85:PRO:HD3	1.98	0.45
1:F:585:HIS:CB	1:F:694:ASP:HB2	2.47	0.45
1:F:1634:ARG:NH1	1:F:1639:ALA:H	2.11	0.45
1:F:2137:GLU:O	1:F:2163:THR:N	2.30	0.45
1:F:2889:ILE:HD11	1:F:2922:LEU:HD22	1.98	0.45
1:A:47:ALA:O	1:A:353:ASP:HA	2.17	0.45
1:A:84:GLU:HB2	1:A:85:PRO:HD3	1.98	0.45
1:A:95:PRO:HB2	1:C:1237:ARG:CZ	2.45	0.45
1:A:195:ARG:NH1	1:A:198:ILE:HD12	2.31	0.45
1:A:540:ASN:ND2	1:A:544:ILE:HG13	2.31	0.45
1:A:684:MET:HG3	1:A:895:THR:HA	1.98	0.45
1:A:1304:LYS:O	1:A:1307:ASP:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1462:ALA:HB2	1:A:1468:TYR:HE1	1.81	0.45
1:A:2361:VAL:HG21	1:A:2401:ILE:HD11	1.98	0.45
1:A:2543:PHE:HA	1:A:2624:GLN:HE22	1.81	0.45
1:A:2612:PRO:HD2	1:F:2603:ARG:HH12	1.81	0.45
1:B:381:ARG:O	1:B:384:GLN:HG2	2.17	0.45
1:B:746:TYR:HB2	1:B:833:ALA:HB1	1.99	0.45
1:B:996:LEU:HA	1:B:1010:LEU:HA	1.97	0.45
1:B:1237:ARG:CZ	1:C:95:PRO:HB2	2.45	0.45
1:B:1304:LYS:O	1:B:1307:ASP:HB2	2.16	0.45
1:B:1325:LEU:HD11	1:B:1343:LEU:HD22	1.98	0.45
1:B:1553:ALA:O	1:B:1557:GLU:HG2	2.17	0.45
1:C:195:ARG:NH1	1:C:198:ILE:HD12	2.31	0.45
1:C:222:LEU:HD13	1:C:248:ILE:HD12	1.99	0.45
1:C:534:ASP:O	1:C:538:GLU:HG3	2.16	0.45
1:C:966:PRO:O	1:C:970:ILE:N	2.48	0.45
1:C:2058:ASP:OD1	1:C:2058:ASP:N	2.46	0.45
1:C:2619:ARG:HH12	1:C:2779:GLY:HA2	1.81	0.45
1:D:95:PRO:HB2	1:F:1237:ARG:CZ	2.46	0.45
1:D:111:GLU:HB2	1:D:112:PRO:HD3	1.98	0.45
1:D:747:LEU:HD22	1:D:751:ARG:CZ	2.47	0.45
1:D:1304:LYS:O	1:D:1307:ASP:HB2	2.16	0.45
1:D:1346:PRO:HG2	1:D:1699:ARG:HD3	1.98	0.45
1:D:2086:SER:HA	1:D:2089:PHE:CG	2.52	0.45
1:D:2785:ALA:HB1	1:D:2809:LEU:HG	1.97	0.45
1:E:585:HIS:CB	1:E:694:ASP:HB2	2.47	0.45
1:E:1634:ARG:NH1	1:E:1639:ALA:N	2.65	0.45
1:E:1672:GLN:HE21	1:E:1672:GLN:HB3	1.58	0.45
1:E:2376:LEU:HD22	1:E:2392:VAL:HG21	1.97	0.45
1:E:2770:LEU:HB3	1:E:2815:GLN:HB3	1.97	0.45
1:F:1285:LYS:HB3	1:F:1286:PRO:HD2	1.99	0.45
1:F:2452:ASP:HA	1:F:3017:ALA:HA	1.99	0.45
1:F:2619:ARG:NH1	1:F:2779:GLY:HA2	2.31	0.45
1:A:277:LEU:HD22	1:A:676:GLY:O	2.16	0.45
1:A:1171:PRO:HA	1:A:1191:ARG:HG2	1.99	0.45
1:A:1553:ALA:O	1:A:1557:GLU:HG2	2.17	0.45
1:A:2210:VAL:HB	1:A:2277:ILE:HD11	1.96	0.45
1:B:2092:THR:O	1:B:2092:THR:CG2	2.64	0.45
1:C:585:HIS:CB	1:C:694:ASP:HB2	2.47	0.45
1:C:2212:TRP:HA	1:C:2229:LYS:HB3	1.98	0.45
1:C:2672:TRP:CD1	1:C:2831:MET:HG2	2.52	0.45
1:C:2716:ASN:OD1	1:D:2737:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2845:PHE:CD2	1:C:2860:ALA:HA	2.52	0.45
1:D:868:ARG:HD3	1:D:872:ARG:HH12	1.81	0.45
1:D:1462:ALA:HB2	1:D:1468:TYR:HE1	1.81	0.45
1:D:2092:THR:O	1:D:2092:THR:CG2	2.64	0.45
1:D:2482:GLU:HG2	1:D:2956:PRO:HB3	1.97	0.45
1:D:2619:ARG:HH12	1:D:2779:GLY:HA2	1.81	0.45
1:D:2672:TRP:CD1	1:D:2831:MET:HG2	2.52	0.45
1:E:2212:TRP:HA	1:E:2229:LYS:HB3	1.98	0.45
1:E:2249:MET:O	1:E:2250:SER:OG	2.28	0.45
1:F:1634:ARG:NH1	1:F:1639:ALA:N	2.65	0.45
1:F:2300:PHE:CZ	1:F:2398:LEU:HB3	2.52	0.45
1:A:996:LEU:HA	1:A:1010:LEU:HA	1.97	0.45
1:A:1581:PHE:HB2	1:A:1586:LEU:HD22	1.99	0.45
1:A:1702:GLU:OE1	1:A:1712:ALA:N	2.49	0.45
1:A:2611:VAL:HA	1:A:2612:PRO:HD3	1.86	0.45
1:A:2614:LYS:HG3	1:F:2583:PHE:HB2	1.97	0.45
1:B:550:LYS:HD3	1:B:577:GLU:OE2	2.17	0.45
1:B:1519:VAL:HG13	1:B:1530:LEU:HD23	1.99	0.45
1:B:2472:TYR:CZ	1:B:2930:LEU:HD22	2.52	0.45
1:C:747:LEU:HD22	1:C:751:ARG:CZ	2.47	0.45
1:C:1284:GLY:HA2	1:C:1343:LEU:HD11	1.99	0.45
1:C:2246:ALA:N	1:C:2255:ARG:NH1	2.64	0.45
1:C:2770:LEU:HB3	1:C:2815:GLN:HB3	1.97	0.45
1:D:84:GLU:HB2	1:D:85:PRO:HD3	1.98	0.45
1:D:585:HIS:CB	1:D:694:ASP:HB2	2.47	0.45
1:D:1284:GLY:HA2	1:D:1343:LEU:HD11	1.99	0.45
1:D:2845:PHE:HD2	1:D:2860:ALA:HA	1.82	0.45
1:E:277:LEU:HD22	1:E:676:GLY:O	2.16	0.45
1:E:1605:LYS:H	1:E:1658:LYS:HE2	1.82	0.45
1:E:2086:SER:HA	1:E:2089:PHE:CG	2.52	0.45
1:F:763:SER:HB3	1:F:766:ASP:HB2	1.99	0.45
1:F:2619:ARG:HH12	1:F:2779:GLY:HA2	1.81	0.45
1:F:2845:PHE:HD2	1:F:2860:ALA:HA	1.82	0.45
1:A:2246:ALA:N	1:A:2255:ARG:NH1	2.64	0.45
1:A:2296:ASN:HB3	1:A:2299:MET:SD	2.57	0.45
1:B:534:ASP:O	1:B:538:GLU:HG3	2.16	0.45
1:B:1285:LYS:HB3	1:B:1286:PRO:HD2	1.99	0.45
1:B:2361:VAL:HG21	1:B:2401:ILE:HD11	1.98	0.45
1:B:2879:LEU:HD13	1:B:3009:VAL:HG11	1.98	0.45
1:B:2957:PRO:HB3	1:B:2979:GLU:C	2.36	0.45
1:C:47:ALA:O	1:C:353:ASP:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:94:ARG:HG3	1:C:95:PRO:HD3	1.98	0.45
1:C:511:ARG:CB	1:C:540:ASN:HB2	2.46	0.45
1:C:1319:ASP:HB2	1:C:1342:ARG:NH1	2.31	0.45
1:C:1519:VAL:HG13	1:C:1530:LEU:HD23	1.99	0.45
1:C:3080:ARG:CG	1:C:3080:ARG:NH1	2.72	0.45
1:D:222:LEU:HD13	1:D:248:ILE:HD12	1.99	0.45
1:D:438:THR:HA	1:D:880:HIS:CE1	2.51	0.45
1:D:684:MET:HG3	1:D:895:THR:HA	1.98	0.45
1:D:784:GLU:OE2	1:D:816:LEU:HD21	2.16	0.45
1:E:111:GLU:HB2	1:E:112:PRO:HD3	1.98	0.45
1:E:1171:PRO:HA	1:E:1191:ARG:HG2	1.99	0.45
1:E:1284:GLY:HA2	1:E:1343:LEU:HD11	1.99	0.45
1:E:2234:PRO:HB2	1:E:2287:LEU:HD13	1.98	0.45
1:E:2472:TYR:CZ	1:E:2930:LEU:HD22	2.52	0.45
1:F:207:MET:HG3	1:F:292:VAL:HB	1.98	0.45
1:F:1226:ARG:CG	1:F:1313:VAL:HG12	2.47	0.45
1:F:1684:ASP:HA	1:F:1687:PHE:HD2	1.82	0.45
1:F:2610:ARG:NH1	1:F:2700:LEU:HD21	2.31	0.45
1:F:2957:PRO:HB3	1:F:2979:GLU:C	2.36	0.45
1:A:207:MET:HG3	1:A:292:VAL:HB	1.98	0.45
1:A:746:TYR:HB2	1:A:833:ALA:HB1	1.99	0.45
1:A:2672:TRP:CD1	1:A:2831:MET:HG2	2.52	0.45
1:A:2716:ASN:OD1	1:F:2737:VAL:HG12	2.17	0.45
1:A:2785:ALA:HB1	1:A:2809:LEU:HG	1.97	0.45
1:B:1226:ARG:CG	1:B:1313:VAL:HG12	2.47	0.45
1:B:1488:VAL:HB	1:B:1579:VAL:HG22	1.99	0.45
1:B:1581:PHE:HB2	1:B:1586:LEU:HD22	1.99	0.45
1:B:2246:ALA:N	1:B:2255:ARG:NH1	2.64	0.45
1:B:2958:ASN:HD22	1:B:2976:TRP:HE1	1.65	0.45
1:C:393:VAL:HG12	1:C:394:PRO:N	2.32	0.45
1:C:799:PHE:CZ	1:C:2433:ARG:CG	2.99	0.45
1:C:1483:LYS:O	1:C:1487:ILE:HG23	2.17	0.45
1:C:2070:LEU:O	1:C:2074:GLU:HG3	2.16	0.45
1:C:2300:PHE:CZ	1:C:2398:LEU:HB3	2.52	0.45
1:C:2879:LEU:HD13	1:C:3009:VAL:HG11	1.98	0.45
1:C:3001:HIS:CE1	1:D:2724:GLN:HG2	2.51	0.45
1:D:2845:PHE:CD2	1:D:2860:ALA:HA	2.52	0.45
1:E:1226:ARG:CG	1:E:1313:VAL:HG12	2.47	0.45
1:E:1304:LYS:O	1:E:1307:ASP:HB2	2.16	0.45
1:E:1483:LYS:O	1:E:1487:ILE:HG23	2.17	0.45
1:E:2246:ALA:N	1:E:2255:ARG:NH1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2296:ASN:HB3	1:E:2299:MET:SD	2.57	0.45
1:E:2879:LEU:HD13	1:E:3009:VAL:HG11	1.98	0.45
1:F:94:ARG:HG3	1:F:95:PRO:HD3	1.98	0.45
1:F:222:LEU:HD21	1:F:236:VAL:HA	1.97	0.45
1:F:222:LEU:HD13	1:F:248:ILE:HD12	1.99	0.45
1:F:747:LEU:HD22	1:F:751:ARG:CZ	2.47	0.45
1:F:1462:ALA:HB2	1:F:1468:TYR:HE1	1.81	0.45
1:F:2845:PHE:CD2	1:F:2860:ALA:HA	2.52	0.45
1:A:336:TRP:CH2	1:A:360:LEU:HD21	2.52	0.45
1:A:2737:VAL:HG12	1:F:2716:ASN:OD1	2.17	0.45
1:A:2845:PHE:HD2	1:A:2860:ALA:HA	1.82	0.45
1:A:3001:HIS:CE1	1:F:2724:GLN:HG2	2.51	0.45
1:A:3080:ARG:CG	1:A:3080:ARG:NH1	2.72	0.45
1:B:544:ILE:O	1:B:546:HIS:N	2.40	0.45
1:B:1483:LYS:O	1:B:1487:ILE:HG23	2.17	0.45
1:B:1702:GLU:OE1	1:B:1712:ALA:N	2.49	0.45
1:B:2800:PHE:CE1	1:B:2812:LEU:HD22	2.50	0.45
1:C:336:TRP:CH2	1:C:360:LEU:HD21	2.52	0.45
1:C:664:LEU:HB3	1:C:701:ALA:HB1	1.99	0.45
1:C:1226:ARG:CG	1:C:1313:VAL:HG12	2.47	0.45
1:C:1553:ALA:O	1:C:1557:GLU:HG2	2.17	0.45
1:C:1684:ASP:HA	1:C:1687:PHE:HD2	1.82	0.45
1:C:2737:VAL:HG12	1:D:2716:ASN:OD1	2.16	0.45
1:C:2769:ASP:OD1	1:C:2770:LEU:N	2.49	0.45
1:D:381:ARG:O	1:D:384:GLN:HG2	2.17	0.45
1:D:393:VAL:HG12	1:D:394:PRO:N	2.32	0.45
1:D:1553:ALA:O	1:D:1557:GLU:HG2	2.17	0.45
1:D:1684:ASP:HA	1:D:1687:PHE:HD2	1.82	0.45
1:E:336:TRP:CH2	1:E:360:LEU:HD21	2.52	0.45
1:E:1093:PRO:HB3	1:E:1277:HIS:CE1	2.52	0.45
1:F:1284:GLY:HA2	1:F:1343:LEU:HD11	1.99	0.45
1:A:602:ARG:NH2	1:A:641:ASP:OD1	2.27	0.44
1:A:664:LEU:HB3	1:A:701:ALA:HB1	1.99	0.44
1:A:1285:LYS:HB3	1:A:1286:PRO:HD2	1.99	0.44
1:A:2472:TYR:CZ	1:A:2930:LEU:HD22	2.52	0.44
1:B:393:VAL:HG12	1:B:394:PRO:N	2.32	0.44
1:B:438:THR:HA	1:B:880:HIS:CE1	2.51	0.44
1:C:381:ARG:O	1:C:384:GLN:HG2	2.17	0.44
1:C:1094:THR:O	1:C:1288:PRO:HG2	2.16	0.44
1:C:1268:GLY:HA2	1:C:1271:LEU:HD12	1.99	0.44
1:D:1268:GLY:HA2	1:D:1271:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1488:VAL:HB	1:D:1579:VAL:HG22	1.99	0.44
1:D:2800:PHE:CE1	1:D:2812:LEU:HD22	2.50	0.44
1:E:207:MET:HG3	1:E:292:VAL:HB	1.98	0.44
1:E:1702:GLU:OE1	1:E:1712:ALA:N	2.49	0.44
1:E:2672:TRP:CD1	1:E:2831:MET:HG2	2.52	0.44
1:F:550:LYS:HD3	1:F:577:GLU:OE2	2.17	0.44
1:F:1304:LYS:O	1:F:1307:ASP:HB2	2.16	0.44
1:F:2296:ASN:HB3	1:F:2299:MET:SD	2.57	0.44
1:F:2299:MET:H	1:F:2299:MET:HG2	1.68	0.44
1:A:747:LEU:HD22	1:A:751:ARG:CZ	2.47	0.44
1:A:936:ARG:O	1:A:941:ARG:N	2.45	0.44
1:A:1605:LYS:H	1:A:1658:LYS:HE2	1.82	0.44
1:A:2070:LEU:O	1:A:2074:GLU:HG3	2.16	0.44
1:A:2462:VAL:HG13	1:A:2835:VAL:HG13	2.00	0.44
1:A:2770:LEU:HB3	1:A:2815:GLN:HB3	1.97	0.44
1:B:1133:VAL:O	1:B:1193:ALA:N	2.42	0.44
1:B:1634:ARG:NH1	1:B:1639:ALA:N	2.65	0.44
1:B:1684:ASP:HA	1:B:1687:PHE:HD2	1.82	0.44
1:B:2300:PHE:CZ	1:B:2398:LEU:HB3	2.52	0.44
1:C:550:LYS:HD3	1:C:577:GLU:OE2	2.17	0.44
1:C:1093:PRO:HB3	1:C:1277:HIS:CE1	2.52	0.44
1:C:1503:ILE:HB	1:C:1542:TYR:HB2	2.00	0.44
1:C:1660:LEU:HD23	1:C:1660:LEU:HA	1.85	0.44
1:C:2472:TYR:CZ	1:C:2930:LEU:HD22	2.52	0.44
1:D:1581:PHE:HB2	1:D:1586:LEU:HD22	1.99	0.44
1:D:1702:GLU:OE1	1:D:1712:ALA:N	2.50	0.44
1:D:2014:SER:H	1:E:2591:ARG:HH12	1.65	0.44
1:D:2452:ASP:HA	1:D:3017:ALA:HA	1.99	0.44
1:D:2610:ARG:NH1	1:D:2700:LEU:HD21	2.31	0.44
1:D:2769:ASP:OD1	1:D:2770:LEU:N	2.49	0.44
1:E:544:ILE:O	1:E:546:HIS:N	2.41	0.44
1:E:763:SER:HB3	1:E:766:ASP:HB2	1.99	0.44
1:E:1268:GLY:HA2	1:E:1271:LEU:HD12	1.99	0.44
1:F:195:ARG:NH1	1:F:198:ILE:HD12	2.31	0.44
1:F:544:ILE:O	1:F:546:HIS:N	2.40	0.44
1:F:2246:ALA:N	1:F:2255:ARG:HH12	2.16	0.44
1:F:2610:ARG:NH1	1:F:2700:LEU:HD11	2.25	0.44
1:F:2672:TRP:CD1	1:F:2831:MET:HG2	2.52	0.44
1:A:2246:ALA:N	1:A:2255:ARG:HH12	2.15	0.44
1:A:2879:LEU:HD13	1:A:3009:VAL:HG11	1.98	0.44
1:A:3065:PRO:O	1:A:3069:GLN:N	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1093:PRO:HB3	1:B:1277:HIS:CE1	2.52	0.44
1:B:1284:GLY:HA2	1:B:1343:LEU:HD11	1.99	0.44
1:B:2070:LEU:O	1:B:2074:GLU:HG3	2.16	0.44
1:B:2209:LEU:O	1:B:2213:VAL:HG23	2.18	0.44
1:B:2212:TRP:HA	1:B:2229:LYS:HB3	1.98	0.44
1:B:2246:ALA:N	1:B:2255:ARG:HH12	2.15	0.44
1:B:2296:ASN:HB3	1:B:2299:MET:SD	2.57	0.44
1:C:1634:ARG:NH1	1:C:1639:ALA:N	2.65	0.44
1:C:2086:SER:HA	1:C:2089:PHE:CG	2.51	0.44
1:C:2452:ASP:HA	1:C:3017:ALA:HA	1.98	0.44
1:C:2462:VAL:HG13	1:C:2835:VAL:HG13	2.00	0.44
1:C:2889:ILE:HD11	1:C:2922:LEU:HD22	1.98	0.44
1:D:671:THR:HB	1:D:682:ASN:CG	2.38	0.44
1:D:763:SER:HB3	1:D:766:ASP:HB2	1.99	0.44
1:D:2300:PHE:CZ	1:D:2398:LEU:HB3	2.52	0.44
1:D:2471:PRO:HA	1:D:2625:ILE:HA	2.00	0.44
1:D:2891:LYS:HZ2	1:D:2903:GLU:HG2	1.83	0.44
1:E:664:LEU:HB3	1:E:701:ALA:HB1	1.99	0.44
1:E:768:LYS:HA	1:E:775:LEU:HD11	1.97	0.44
1:E:1488:VAL:HB	1:E:1579:VAL:HG22	1.99	0.44
1:E:2619:ARG:HH12	1:E:2779:GLY:HA2	1.81	0.44
1:F:47:ALA:O	1:F:353:ASP:HA	2.17	0.44
1:F:81:LEU:HD23	1:F:81:LEU:HA	1.88	0.44
1:F:511:ARG:CB	1:F:540:ASN:HB2	2.46	0.44
1:F:647:THR:OG1	2:F:4000:FMN:O3P	2.27	0.44
1:A:163:LEU:HD13	1:A:181:LEU:HD23	2.00	0.44
1:A:583:GLY:HA2	1:A:892:ILE:HD13	2.00	0.44
1:A:868:ARG:HD3	1:A:872:ARG:HH12	1.81	0.44
1:A:1226:ARG:CG	1:A:1313:VAL:HG12	2.47	0.44
1:A:2889:ILE:HD11	1:A:2922:LEU:HD22	1.98	0.44
1:B:784:GLU:OE2	1:B:816:LEU:HD21	2.16	0.44
1:B:2096:VAL:HG13	1:B:2097:ALA:H	1.80	0.44
1:B:2903:GLU:OE2	1:B:2995:THR:OG1	2.36	0.44
1:C:1605:LYS:H	1:C:1658:LYS:HE2	1.82	0.44
1:C:1612:GLY:N	1:C:1623:PHE:O	2.48	0.44
1:D:210:VAL:HG22	1:D:287:PHE:HD1	1.82	0.44
1:D:782:ARG:NH1	1:D:857:VAL:HG22	2.33	0.44
1:D:1537:LEU:HD13	1:D:1541:GLN:HB2	2.00	0.44
1:D:2014:SER:N	1:E:2591:ARG:NH1	2.66	0.44
1:D:2096:VAL:HG13	1:D:2097:ALA:H	1.80	0.44
1:D:2462:VAL:HG13	1:D:2835:VAL:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2891:LYS:HG3	1:D:2924:ILE:HD13	1.99	0.44
1:E:195:ARG:NH1	1:E:198:ILE:HD12	2.31	0.44
1:E:2014:SER:H	1:F:2591:ARG:HH12	1.65	0.44
1:E:2845:PHE:CD2	1:E:2860:ALA:HA	2.52	0.44
1:E:2946:LEU:HD22	1:E:2994:VAL:HG23	1.98	0.44
1:F:111:GLU:HB2	1:F:112:PRO:HD3	1.98	0.44
1:F:381:ARG:O	1:F:384:GLN:HG2	2.17	0.44
1:F:970:ILE:HG23	1:F:992:THR:HG21	2.00	0.44
1:F:1553:ALA:O	1:F:1557:GLU:HG2	2.17	0.44
1:F:1581:PHE:HB2	1:F:1586:LEU:HD22	1.99	0.44
1:F:1605:LYS:H	1:F:1658:LYS:HE2	1.82	0.44
1:F:2769:ASP:OD1	1:F:2770:LEU:N	2.49	0.44
1:F:2958:ASN:HD22	1:F:2976:TRP:HE1	1.65	0.44
1:A:1723:GLU:O	1:A:1725:SER:N	2.51	0.44
1:A:2903:GLU:OE2	1:A:2995:THR:OG1	2.36	0.44
1:B:575:HIS:CD2	1:B:644:LEU:HD22	2.49	0.44
1:B:747:LEU:HD22	1:B:751:ARG:CZ	2.47	0.44
1:B:1723:GLU:O	1:B:1725:SER:N	2.51	0.44
1:B:2845:PHE:CD2	1:B:2860:ALA:HA	2.52	0.44
1:C:88:SER:HB3	1:C:314:THR:OG1	2.18	0.44
1:C:1325:LEU:HD11	1:C:1343:LEU:HD22	1.98	0.44
1:C:1450:ALA:N	1:C:1613:ARG:O	2.48	0.44
1:C:2555:SER:HA	1:C:2556:PRO:HD2	1.85	0.44
1:C:2710:LEU:O	1:C:2713:VAL:HG22	2.18	0.44
1:D:2058:ASP:OD1	1:D:2058:ASP:N	2.46	0.44
1:D:2212:TRP:HA	1:D:2229:LYS:HB3	1.98	0.44
1:D:2580:PHE:HE1	1:D:2603:ARG:HH21	1.66	0.44
1:D:2889:ILE:HD11	1:D:2922:LEU:HD22	1.98	0.44
1:E:47:ALA:O	1:E:353:ASP:HA	2.17	0.44
1:E:163:LEU:HD13	1:E:181:LEU:HD23	2.00	0.44
1:E:393:VAL:HG12	1:E:394:PRO:N	2.32	0.44
1:E:1133:VAL:N	1:E:1193:ALA:O	2.48	0.44
1:E:1285:LYS:HB3	1:E:1286:PRO:HD2	1.99	0.44
1:E:1457:GLU:OE2	1:E:1614:TYR:OH	2.30	0.44
1:E:1519:VAL:HG13	1:E:1530:LEU:HD23	1.99	0.44
1:F:42:GLU:HA	1:F:43:PRO:HD3	1.91	0.44
1:F:88:SER:HB3	1:F:314:THR:OG1	2.18	0.44
1:F:163:LEU:HD13	1:F:181:LEU:HD23	2.00	0.44
1:F:782:ARG:NH1	1:F:857:VAL:HG22	2.33	0.44
1:F:1350:TYR:CD1	1:F:1703:ILE:HD11	2.53	0.44
1:F:1551:LEU:HD13	1:F:1551:LEU:HA	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2472:TYR:CZ	1:F:2930:LEU:HD22	2.52	0.44
1:A:351:ILE:HB	1:A:375:ILE:HG12	1.99	0.44
1:A:2300:PHE:CZ	1:A:2398:LEU:HB3	2.52	0.44
1:A:2958:ASN:HD22	1:A:2976:TRP:HE1	1.65	0.44
1:B:1171:PRO:HA	1:B:1191:ARG:HG2	1.99	0.44
1:B:2014:SER:N	1:C:2591:ARG:NH1	2.66	0.44
1:B:2580:PHE:HE1	1:B:2603:ARG:HH21	1.66	0.44
1:C:1350:TYR:CD1	1:C:1703:ILE:HD11	2.53	0.44
1:C:2246:ALA:N	1:C:2255:ARG:HH12	2.15	0.44
1:D:936:ARG:O	1:D:941:ARG:N	2.45	0.44
1:D:1171:PRO:HA	1:D:1191:ARG:HG2	1.99	0.44
1:D:2246:ALA:N	1:D:2255:ARG:HH12	2.15	0.44
1:D:2334:HIS:CD2	1:D:2391:LYS:HG3	2.50	0.44
1:D:2879:LEU:HD13	1:D:3009:VAL:HG11	1.98	0.44
1:E:351:ILE:HB	1:E:375:ILE:HG12	1.99	0.44
1:E:412:ASP:H	1:E:1025:VAL:CG2	2.31	0.44
1:E:747:LEU:HD22	1:E:751:ARG:CZ	2.47	0.44
1:E:1350:TYR:CD1	1:E:1703:ILE:HD11	2.53	0.44
1:F:657:THR:HB	1:F:662:LYS:HE3	2.00	0.44
1:F:936:ARG:O	1:F:941:ARG:N	2.45	0.44
1:F:1723:GLU:O	1:F:1725:SER:N	2.51	0.44
1:F:2541:ARG:O	1:F:2621:VAL:HG13	2.18	0.44
1:F:2554:ALA:HB1	1:F:2614:LYS:HZ2	1.81	0.44
1:A:412:ASP:H	1:A:1025:VAL:CG2	2.31	0.44
1:A:782:ARG:NH1	1:A:857:VAL:HG22	2.33	0.44
1:A:784:GLU:OE2	1:A:816:LEU:HD21	2.16	0.44
1:A:1133:VAL:O	1:A:1193:ALA:N	2.42	0.44
1:A:1503:ILE:HB	1:A:1542:TYR:HB2	2.00	0.44
1:A:2452:ASP:HA	1:A:3017:ALA:HA	1.98	0.44
1:A:2471:PRO:HA	1:A:2625:ILE:HA	2.00	0.44
1:B:336:TRP:CH2	1:B:360:LEU:HD21	2.52	0.44
1:B:351:ILE:HB	1:B:375:ILE:HG12	1.99	0.44
1:B:412:ASP:H	1:B:1025:VAL:CG2	2.31	0.44
1:B:657:THR:HB	1:B:662:LYS:HE3	2.00	0.44
1:B:782:ARG:NH1	1:B:857:VAL:HG22	2.33	0.44
1:B:1705:VAL:O	1:B:1735:GLU:HB2	2.18	0.44
1:C:671:THR:HB	1:C:682:ASN:CG	2.38	0.44
1:C:782:ARG:NH1	1:C:857:VAL:HG22	2.33	0.44
1:C:970:ILE:HG23	1:C:992:THR:HG21	2.00	0.44
1:C:1581:PHE:HB2	1:C:1586:LEU:HD22	1.99	0.44
1:C:1723:GLU:O	1:C:1725:SER:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2471:PRO:HA	1:C:2625:ILE:HA	2.00	0.44
1:D:1247:ASN:HA	1:D:1248:PRO:HD3	1.83	0.44
1:D:1519:VAL:HG13	1:D:1530:LEU:HD23	1.98	0.44
1:D:1605:LYS:H	1:D:1658:LYS:HE2	1.82	0.44
1:D:1634:ARG:NH1	1:D:1639:ALA:N	2.65	0.44
1:E:515:ALA:HA	1:E:516:PRO:HD3	1.84	0.44
1:F:336:TRP:CH2	1:F:360:LEU:HD21	2.52	0.44
1:F:412:ASP:H	1:F:1025:VAL:CG2	2.31	0.44
1:F:2879:LEU:HD13	1:F:3009:VAL:HG11	1.98	0.44
1:A:222:LEU:HD13	1:A:248:ILE:HD12	1.99	0.44
1:A:475:LEU:HA	1:A:475:LEU:HD23	1.79	0.44
1:A:550:LYS:HD3	1:A:577:GLU:OE2	2.17	0.44
1:A:1350:TYR:CD1	1:A:1703:ILE:HD11	2.53	0.44
1:A:1537:LEU:HD13	1:A:1541:GLN:HB2	2.00	0.44
1:A:1684:ASP:HA	1:A:1687:PHE:HD2	1.82	0.44
1:A:2234:PRO:HB2	1:A:2287:LEU:HD13	1.98	0.44
1:A:2252:VAL:HG22	1:A:2255:ARG:HH21	1.82	0.44
1:A:2735:HIS:O	1:F:2737:VAL:N	2.51	0.44
1:A:2831:MET:HE2	1:A:2831:MET:HB3	1.87	0.44
1:A:2845:PHE:CD2	1:A:2860:ALA:HA	2.52	0.44
1:B:671:THR:HB	1:B:682:ASN:CG	2.38	0.44
1:B:782:ARG:HH11	1:B:857:VAL:HG22	1.83	0.44
1:B:1350:TYR:CD1	1:B:1703:ILE:HD11	2.53	0.44
1:B:2014:SER:H	1:C:2591:ARG:HH12	1.65	0.44
1:B:2297:ARG:HH22	1:B:2391:LYS:HZ3	1.65	0.44
1:B:2831:MET:HE2	1:B:2831:MET:HB3	1.87	0.44
1:C:50:GLY:O	1:C:53:SER:OG	2.36	0.44
1:C:2252:VAL:HG22	1:C:2255:ARG:HH21	1.82	0.44
1:D:1285:LYS:HB3	1:D:1286:PRO:HD2	1.99	0.44
1:D:1350:TYR:CD1	1:D:1703:ILE:HD11	2.53	0.44
1:D:1483:LYS:O	1:D:1487:ILE:HG23	2.17	0.44
1:D:1582:HIS:HA	1:D:1674:ALA:O	2.18	0.44
1:E:695:ILE:HG22	1:E:697:GLU:HG3	2.00	0.44
1:E:782:ARG:NH1	1:E:857:VAL:HG22	2.33	0.44
1:E:1581:PHE:HB2	1:E:1586:LEU:HD22	1.99	0.44
1:E:2710:LEU:O	1:E:2713:VAL:HG22	2.18	0.44
1:F:1171:PRO:HA	1:F:1191:ARG:HG2	1.99	0.44
1:F:1268:GLY:HA2	1:F:1271:LEU:HD12	1.99	0.44
1:F:2209:LEU:O	1:F:2213:VAL:HG23	2.18	0.44
1:F:2252:VAL:HG22	1:F:2255:ARG:HH21	1.82	0.44
1:F:2710:LEU:O	1:F:2713:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3044:ALA:HB1	1:F:3050:PRO:HB3	2.00	0.44
1:A:344:HIS:CD2	1:A:373:ILE:HG13	2.53	0.44
1:A:516:PRO:HA	1:A:962:MET:SD	2.58	0.44
1:A:782:ARG:HH11	1:A:857:VAL:HG22	1.83	0.44
1:A:857:VAL:HG13	1:A:859:PHE:H	1.83	0.44
1:A:2334:HIS:CD2	1:A:2391:LYS:HG3	2.50	0.44
1:B:210:VAL:HG22	1:B:287:PHE:HD1	1.82	0.44
1:B:222:LEU:HD13	1:B:248:ILE:HD12	1.99	0.44
1:B:763:SER:HB3	1:B:766:ASP:HB2	1.99	0.44
1:C:2557:LEU:CG	1:D:2702:GLY:HA3	2.46	0.44
1:C:2610:ARG:NH1	1:C:2700:LEU:HD11	2.25	0.44
1:D:970:ILE:HG23	1:D:992:THR:HG21	2.00	0.44
1:D:1503:ILE:HB	1:D:1542:TYR:HB2	2.00	0.44
1:E:365:ALA:O	1:E:369:ARG:N	2.42	0.44
1:E:381:ARG:O	1:E:384:GLN:HG2	2.17	0.44
1:E:2209:LEU:O	1:E:2213:VAL:HG23	2.18	0.44
1:E:2471:PRO:HA	1:E:2625:ILE:HA	2.00	0.44
1:F:351:ILE:HB	1:F:375:ILE:HG12	1.99	0.44
1:F:516:PRO:HA	1:F:962:MET:SD	2.58	0.44
1:F:671:THR:HB	1:F:682:ASN:CG	2.38	0.44
1:F:746:TYR:HB2	1:F:833:ALA:HB1	1.99	0.44
1:F:1488:VAL:HB	1:F:1579:VAL:HG22	1.99	0.44
1:F:1503:ILE:HB	1:F:1542:TYR:HB2	2.00	0.44
1:A:657:THR:HB	1:A:662:LYS:HE3	2.00	0.43
1:A:874:ASP:OD2	1:A:877:TRP:CD1	2.71	0.43
1:A:1488:VAL:HB	1:A:1579:VAL:HG22	1.99	0.43
1:A:1582:HIS:HA	1:A:1674:ALA:O	2.18	0.43
1:A:1634:ARG:NH1	1:A:1639:ALA:N	2.65	0.43
1:A:2014:SER:H	1:B:2591:ARG:HH12	1.65	0.43
1:A:2014:SER:N	1:B:2591:ARG:HH12	2.16	0.43
1:A:2014:SER:N	1:B:2591:ARG:NH1	2.66	0.43
1:A:2092:THR:O	1:A:2092:THR:CG2	2.64	0.43
1:A:2700:LEU:HD22	1:F:2697:HIS:CD2	2.43	0.43
1:B:515:ALA:HA	1:B:516:PRO:HD3	1.84	0.43
1:B:585:HIS:CB	1:B:694:ASP:HB2	2.47	0.43
1:B:1503:ILE:HB	1:B:1542:TYR:HB2	2.00	0.43
1:B:1733:ASN:H	1:B:1737:ASP:HB2	1.83	0.43
1:C:344:HIS:CD2	1:C:373:ILE:HG13	2.53	0.43
1:C:516:PRO:HA	1:C:962:MET:SD	2.58	0.43
1:C:583:GLY:HA2	1:C:892:ILE:HD13	2.00	0.43
1:C:695:ILE:HG22	1:C:697:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3044:ALA:HB1	1:C:3050:PRO:HB3	2.00	0.43
1:D:34:LEU:O	1:D:38:LEU:HG	2.18	0.43
1:D:782:ARG:HH11	1:D:857:VAL:HG22	1.83	0.43
1:D:1723:GLU:O	1:D:1725:SER:N	2.51	0.43
1:D:3044:ALA:HB1	1:D:3050:PRO:HB3	2.00	0.43
1:E:88:SER:HB3	1:E:314:THR:OG1	2.18	0.43
1:E:671:THR:HB	1:E:682:ASN:CG	2.38	0.43
1:E:1072:TRP:HE1	1:E:1077:VAL:HG22	1.80	0.43
1:E:2180:LYS:HZ1	1:E:2962:ASP:HB3	1.83	0.43
1:E:2300:PHE:CZ	1:E:2398:LEU:HB3	2.52	0.43
1:E:2580:PHE:HE1	1:E:2603:ARG:HH21	1.66	0.43
1:F:344:HIS:CD2	1:F:373:ILE:HG13	2.53	0.43
1:F:2361:VAL:HG21	1:F:2401:ILE:HD11	1.98	0.43
1:A:210:VAL:HG22	1:A:287:PHE:HD1	1.83	0.43
1:A:393:VAL:HG12	1:A:394:PRO:N	2.32	0.43
1:A:671:THR:HB	1:A:682:ASN:CG	2.38	0.43
1:A:1519:VAL:HG13	1:A:1530:LEU:HD23	1.99	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:H	1.66	0.43
1:B:315:VAL:C	1:B:317:LEU:H	2.22	0.43
1:B:874:ASP:OD2	1:B:877:TRP:CD1	2.72	0.43
1:B:2710:LEU:O	1:B:2713:VAL:HG22	2.18	0.43
1:C:34:LEU:O	1:C:38:LEU:HG	2.18	0.43
1:C:210:VAL:HG22	1:C:287:PHE:HD1	1.82	0.43
1:C:315:VAL:C	1:C:317:LEU:H	2.22	0.43
1:C:857:VAL:HG13	1:C:859:PHE:H	1.83	0.43
1:D:276:LYS:HB3	1:D:587:TRP:CH2	2.53	0.43
1:D:516:PRO:HA	1:D:962:MET:SD	2.58	0.43
1:D:2209:LEU:O	1:D:2213:VAL:HG23	2.18	0.43
1:E:1352:PHE:HA	1:E:1353:PRO:HD3	1.72	0.43
1:E:1462:ALA:HB2	1:E:1468:TYR:HE1	1.81	0.43
1:E:1582:HIS:HA	1:E:1674:ALA:O	2.18	0.43
1:E:2252:VAL:HG22	1:E:2255:ARG:HH21	1.83	0.43
1:E:2541:ARG:O	1:E:2621:VAL:HG13	2.18	0.43
1:E:2836:LEU:HD23	1:E:2836:LEU:HA	1.87	0.43
1:F:856:PRO:HG2	1:F:874:ASP:HB2	2.00	0.43
1:A:34:LEU:O	1:A:38:LEU:HG	2.19	0.43
1:A:2096:VAL:HG13	1:A:2097:ALA:H	1.80	0.43
1:B:583:GLY:HA2	1:B:892:ILE:HD13	2.00	0.43
1:B:1605:LYS:H	1:B:1658:LYS:HE2	1.82	0.43
1:B:2032:VAL:HG11	1:D:2032:VAL:HG11	2.00	0.43
1:B:2296:ASN:ND2	1:B:2395:THR:HG21	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:874:ASP:OD2	1:C:877:TRP:CD1	2.72	0.43
1:C:1247:ASN:HA	1:C:1248:PRO:HD3	1.83	0.43
1:C:1285:LYS:HB3	1:C:1286:PRO:HD2	1.99	0.43
1:D:664:LEU:HB3	1:D:701:ALA:HB1	1.99	0.43
1:D:2296:ASN:HB3	1:D:2299:MET:SD	2.57	0.43
1:D:2591:ARG:NH1	1:F:2014:SER:N	2.66	0.43
1:E:647:THR:N	2:E:4000:FMN:O3P	2.51	0.43
1:E:746:TYR:HB2	1:E:833:ALA:HB1	1.99	0.43
1:E:1537:LEU:HD13	1:E:1541:GLN:HB2	2.00	0.43
1:E:2092:THR:O	1:E:2092:THR:CG2	2.64	0.43
1:E:3065:PRO:O	1:E:3069:GLN:N	2.43	0.43
1:F:2334:HIS:CD2	1:F:2391:LYS:HG3	2.50	0.43
1:F:2580:PHE:HE1	1:F:2603:ARG:HH21	1.66	0.43
1:A:575:HIS:CD2	1:A:644:LEU:HD22	2.49	0.43
1:A:2710:LEU:O	1:A:2713:VAL:HG22	2.18	0.43
1:A:2737:VAL:N	1:F:2735:HIS:O	2.51	0.43
1:A:3044:ALA:HB1	1:A:3050:PRO:HB3	2.00	0.43
1:B:276:LYS:HB3	1:B:587:TRP:CH2	2.53	0.43
1:B:341:THR:HG23	1:B:344:HIS:ND1	2.34	0.43
1:B:658:SER:HB2	1:B:661:VAL:HG23	2.01	0.43
1:B:2735:HIS:O	1:E:2737:VAL:N	2.51	0.43
1:C:365:ALA:O	1:C:369:ARG:N	2.42	0.43
1:C:2209:LEU:O	1:C:2213:VAL:HG23	2.17	0.43
1:C:2512:TRP:O	1:C:2520:LEU:HD12	2.19	0.43
1:D:336:TRP:CH2	1:D:360:LEU:HD21	2.52	0.43
1:D:580:ARG:HD3	1:D:896:ALA:HB3	2.01	0.43
1:D:657:THR:HB	1:D:662:LYS:HE3	2.00	0.43
1:D:1163:ASP:HA	1:D:1168:ARG:HA	2.01	0.43
1:D:1733:ASN:H	1:D:1737:ASP:HB2	1.83	0.43
1:E:344:HIS:CD2	1:E:373:ILE:HG13	2.53	0.43
1:E:856:PRO:HG2	1:E:874:ASP:HB2	2.00	0.43
1:E:1503:ILE:HB	1:E:1542:TYR:HB2	2.00	0.43
1:E:2115:HIS:HA	1:E:2118:LEU:CG	2.49	0.43
1:E:3044:ALA:HB1	1:E:3050:PRO:HB3	2.00	0.43
1:F:276:LYS:HB3	1:F:587:TRP:CH2	2.53	0.43
1:F:393:VAL:HG12	1:F:394:PRO:N	2.32	0.43
1:F:1582:HIS:HA	1:F:1674:ALA:O	2.18	0.43
1:F:1733:ASN:H	1:F:1737:ASP:HB2	1.83	0.43
1:A:1268:GLY:HA2	1:A:1271:LEU:HD12	1.99	0.43
1:B:88:SER:HB3	1:B:314:THR:OG1	2.18	0.43
1:B:647:THR:N	2:B:4000:FMN:O3P	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:695:ILE:HG22	1:B:697:GLU:HG3	2.01	0.43
1:B:1268:GLY:HA2	1:B:1271:LEU:HD12	1.99	0.43
1:B:1582:HIS:HA	1:B:1674:ALA:O	2.18	0.43
1:B:2252:VAL:HG22	1:B:2255:ARG:HH21	1.82	0.43
1:B:2471:PRO:HA	1:B:2625:ILE:HA	2.00	0.43
1:C:1117:ALA:HA	1:C:1120:GLU:HB2	2.01	0.43
1:C:1537:LEU:HD13	1:C:1541:GLN:HB2	2.00	0.43
1:C:1582:HIS:HA	1:C:1674:ALA:O	2.18	0.43
1:C:2296:ASN:HB3	1:C:2299:MET:SD	2.57	0.43
1:C:2891:LYS:HG3	1:C:2924:ILE:HD13	1.98	0.43
1:D:340:ILE:HD11	1:D:351:ILE:HD13	2.01	0.43
1:D:412:ASP:H	1:D:1025:VAL:CG2	2.31	0.43
1:D:658:SER:HB2	1:D:661:VAL:HG23	2.00	0.43
1:D:857:VAL:HG13	1:D:859:PHE:H	1.83	0.43
1:D:1317:GLY:O	1:D:1324:VAL:HG12	2.19	0.43
1:D:1705:VAL:O	1:D:1735:GLU:HB2	2.18	0.43
1:D:2958:ASN:HD22	1:D:2976:TRP:HE1	1.65	0.43
1:E:340:ILE:HD11	1:E:351:ILE:HD13	2.01	0.43
1:E:580:ARG:HD3	1:E:896:ALA:HB3	2.01	0.43
1:E:970:ILE:HG23	1:E:992:THR:HG21	2.00	0.43
1:E:1087:PHE:HD2	1:F:117:LYS:HZ1	1.67	0.43
1:E:1317:GLY:O	1:E:1324:VAL:HG12	2.19	0.43
1:E:1612:GLY:N	1:E:1623:PHE:O	2.48	0.43
1:F:1537:LEU:HD13	1:F:1541:GLN:HB2	2.00	0.43
1:F:2092:THR:O	1:F:2092:THR:CG2	2.64	0.43
1:A:695:ILE:HG22	1:A:697:GLU:HG3	2.00	0.43
1:A:763:SER:HB3	1:A:766:ASP:HB2	1.99	0.43
1:A:1072:TRP:HE1	1:A:1077:VAL:HG22	1.80	0.43
1:A:1399:ASN:HA	1:A:1400:PRO:HD3	1.86	0.43
1:A:1733:ASN:H	1:A:1737:ASP:HB2	1.83	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:N	2.16	0.43
1:B:307:ILE:HG22	1:B:311:TRP:CE2	2.54	0.43
1:B:516:PRO:HA	1:B:962:MET:SD	2.58	0.43
1:B:2462:VAL:HG13	1:B:2835:VAL:HG13	2.00	0.43
1:B:2541:ARG:O	1:B:2621:VAL:HG13	2.18	0.43
1:B:2557:LEU:CG	1:E:2702:GLY:HA3	2.46	0.43
1:B:3065:PRO:O	1:B:3069:GLN:N	2.42	0.43
1:C:658:SER:HB2	1:C:661:VAL:HG23	2.01	0.43
1:C:782:ARG:HH11	1:C:857:VAL:HG22	1.83	0.43
1:C:2580:PHE:HE1	1:C:2603:ARG:HH21	1.66	0.43
1:D:81:LEU:HD23	1:D:81:LEU:HA	1.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1504:ARG:HA	1:D:1540:SER:O	2.19	0.43
1:D:2903:GLU:OE2	1:D:2995:THR:OG1	2.36	0.43
1:E:34:LEU:O	1:E:38:LEU:HG	2.18	0.43
1:E:276:LYS:HB3	1:E:587:TRP:CH2	2.53	0.43
1:E:315:VAL:C	1:E:317:LEU:H	2.22	0.43
1:E:1163:ASP:HA	1:E:1168:ARG:HA	2.01	0.43
1:E:1733:ASN:H	1:E:1737:ASP:HB2	1.83	0.43
1:E:2297:ARG:HH22	1:E:2391:LYS:HZ3	1.67	0.43
1:E:2831:MET:HE2	1:E:2831:MET:HB3	1.87	0.43
1:F:647:THR:N	2:F:4000:FMN:O3P	2.51	0.43
1:F:2297:ARG:HH12	1:F:2391:LYS:NZ	2.17	0.43
1:F:2512:TRP:O	1:F:2520:LEU:HD12	2.19	0.43
1:F:2706:PRO:O	1:F:2709:ILE:HG12	2.19	0.43
1:A:276:LYS:HB3	1:A:587:TRP:CH2	2.53	0.43
1:A:658:SER:HB2	1:A:661:VAL:HG23	2.00	0.43
1:A:780:ARG:NH1	1:A:817:GLU:OE2	2.52	0.43
1:B:34:LEU:O	1:B:38:LEU:HG	2.19	0.43
1:B:163:LEU:HD13	1:B:181:LEU:HD23	2.00	0.43
1:B:2088:ARG:C	1:B:2188:ARG:NH1	2.72	0.43
1:B:2737:VAL:N	1:E:2735:HIS:O	2.51	0.43
1:C:340:ILE:HD11	1:C:351:ILE:HD13	2.01	0.43
1:C:647:THR:N	2:C:4000:FMN:O3P	2.51	0.43
1:C:1163:ASP:HA	1:C:1168:ARG:HA	2.01	0.43
1:C:2032:VAL:HG11	1:F:2032:VAL:HG11	2.01	0.43
1:C:2674:HIS:HA	1:C:2675:PRO:HD2	1.88	0.43
1:C:2958:ASN:HD22	1:C:2976:TRP:HE1	1.65	0.43
1:D:117:LYS:HZ1	1:F:1087:PHE:HD2	1.67	0.43
1:D:475:LEU:HA	1:D:475:LEU:HD23	1.79	0.43
1:D:647:THR:N	2:D:4000:FMN:O3P	2.51	0.43
1:D:2115:HIS:HA	1:D:2118:LEU:CG	2.49	0.43
1:D:2591:ARG:HH12	1:F:2014:SER:N	2.16	0.43
1:E:550:LYS:HD3	1:E:577:GLU:OE2	2.17	0.43
1:E:2014:SER:N	1:F:2591:ARG:NH1	2.66	0.43
1:F:210:VAL:HG22	1:F:287:PHE:HD1	1.82	0.43
1:F:575:HIS:CD2	1:F:644:LEU:HD22	2.48	0.43
1:F:2471:PRO:HA	1:F:2625:ILE:HA	2.00	0.43
1:F:2810:GLY:HA2	1:F:2896:THR:HG22	2.01	0.43
1:A:511:ARG:CB	1:A:540:ASN:HB2	2.46	0.43
1:A:2088:ARG:C	1:A:2188:ARG:NH1	2.72	0.43
1:A:2209:LEU:O	1:A:2213:VAL:HG23	2.18	0.43
1:A:2297:ARG:HH12	1:A:2391:LYS:NZ	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:511:ARG:CB	1:B:540:ASN:HB2	2.46	0.43
1:B:857:VAL:HG13	1:B:859:PHE:H	1.83	0.43
1:B:1133:VAL:N	1:B:1193:ALA:O	2.48	0.43
1:B:1504:ARG:HA	1:B:1540:SER:O	2.19	0.43
1:B:1619:VAL:HA	1:B:1620:PRO:HD2	1.80	0.43
1:B:3080:ARG:CG	1:B:3080:ARG:NH1	2.72	0.43
1:C:341:THR:HG23	1:C:344:HIS:ND1	2.34	0.43
1:C:1504:ARG:HA	1:C:1540:SER:O	2.19	0.43
1:C:1672:GLN:HE21	1:C:1672:GLN:HB3	1.58	0.43
1:C:2115:HIS:HA	1:C:2118:LEU:CG	2.49	0.43
1:C:2137:GLU:O	1:C:2163:THR:N	2.30	0.43
1:C:2334:HIS:CD2	1:C:2391:LYS:HG3	2.50	0.43
1:C:2444:PRO:HB2	1:C:2988:PRO:HB3	2.01	0.43
1:C:2706:PRO:O	1:C:2709:ILE:HG12	2.19	0.43
1:D:683:GLY:CA	1:D:700:ASN:HB2	2.44	0.43
1:D:874:ASP:OD2	1:D:877:TRP:CD1	2.72	0.43
1:D:1291:LYS:HZ3	1:D:1346:PRO:HA	1.84	0.43
1:D:2710:LEU:O	1:D:2713:VAL:HG22	2.18	0.43
1:E:1660:LEU:HD23	1:E:1660:LEU:HA	1.85	0.43
1:E:2088:ARG:C	1:E:2188:ARG:NH1	2.72	0.43
1:E:2296:ASN:ND2	1:E:2395:THR:HG21	2.34	0.43
1:E:2444:PRO:HB2	1:E:2988:PRO:HB3	2.01	0.43
1:E:2452:ASP:HA	1:E:3017:ALA:HA	1.99	0.43
1:F:307:ILE:HG22	1:F:311:TRP:CE2	2.54	0.43
1:F:583:GLY:HA2	1:F:892:ILE:HD13	2.00	0.43
1:F:1504:ARG:HA	1:F:1540:SER:O	2.19	0.43
1:F:1705:VAL:O	1:F:1735:GLU:HB2	2.18	0.43
1:F:2462:VAL:HG13	1:F:2835:VAL:HG13	2.00	0.43
1:F:2903:GLU:OE2	1:F:2995:THR:OG1	2.36	0.43
1:F:2989:LEU:HD12	1:F:2989:LEU:HA	1.77	0.43
1:A:580:ARG:HD3	1:A:896:ALA:HB3	2.01	0.43
1:A:585:HIS:HD2	1:A:586:SER:H	1.62	0.43
1:A:1705:VAL:O	1:A:1735:GLU:HB2	2.18	0.43
1:A:2115:HIS:HA	1:A:2118:LEU:CG	2.49	0.43
1:A:2706:PRO:O	1:A:2709:ILE:HG12	2.19	0.43
1:B:1163:ASP:HA	1:B:1168:ARG:HA	2.01	0.43
1:B:1537:LEU:HD13	1:B:1541:GLN:HB2	2.00	0.43
1:B:2115:HIS:HA	1:B:2118:LEU:CG	2.48	0.43
1:B:2512:TRP:O	1:B:2520:LEU:HD12	2.19	0.43
1:B:2695:MET:HG3	1:B:2696:TYR:N	2.34	0.43
1:B:3044:ALA:HB1	1:B:3050:PRO:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:412:ASP:H	1:C:1025:VAL:CG2	2.31	0.43
1:C:2088:ARG:C	1:C:2188:ARG:NH1	2.72	0.43
1:C:2092:THR:O	1:C:2092:THR:CG2	2.64	0.43
1:D:344:HIS:CD2	1:D:373:ILE:HG13	2.53	0.43
1:D:1117:ALA:HA	1:D:1120:GLU:HB2	2.01	0.43
1:D:2088:ARG:C	1:D:2188:ARG:NH1	2.72	0.43
1:D:2296:ASN:ND2	1:D:2395:THR:HG21	2.34	0.43
1:D:2706:PRO:O	1:D:2709:ILE:HG12	2.19	0.43
1:D:2810:GLY:HA2	1:D:2896:THR:HG22	2.01	0.43
1:E:42:GLU:HA	1:E:43:PRO:HD3	1.91	0.43
1:E:516:PRO:HA	1:E:962:MET:SD	2.58	0.43
1:E:857:VAL:HG13	1:E:859:PHE:H	1.83	0.43
1:E:1705:VAL:O	1:E:1735:GLU:HB2	2.18	0.43
1:E:2557:LEU:HB3	1:E:2613:ARG:HB2	2.01	0.43
1:E:2706:PRO:O	1:E:2709:ILE:HG12	2.19	0.43
1:F:70:SER:HG	1:F:142:ARG:HH22	1.65	0.43
1:F:658:SER:HB2	1:F:661:VAL:HG23	2.00	0.43
1:F:857:VAL:HG13	1:F:859:PHE:H	1.83	0.43
1:F:1612:GLY:N	1:F:1623:PHE:O	2.48	0.43
1:F:2891:LYS:HZ2	1:F:2903:GLU:HG2	1.84	0.43
1:A:856:PRO:HG2	1:A:874:ASP:HB2	2.00	0.43
1:A:970:ILE:HG23	1:A:992:THR:HG21	2.00	0.43
1:A:2541:ARG:O	1:A:2621:VAL:HG13	2.18	0.43
1:A:2591:ARG:NH1	1:C:2014:SER:N	2.66	0.43
1:B:344:HIS:CD2	1:B:373:ILE:HG13	2.53	0.43
1:B:580:ARG:HD3	1:B:896:ALA:HB3	2.01	0.43
1:B:2468:GLU:OE2	1:B:2478:ARG:NH2	2.48	0.43
1:B:2558:LEU:HD11	1:E:2610:ARG:HD2	2.01	0.43
1:C:2891:LYS:HZ1	1:C:2904:THR:N	2.17	0.43
1:D:88:SER:HB3	1:D:314:THR:OG1	2.18	0.43
1:D:341:THR:HG23	1:D:344:HIS:ND1	2.34	0.43
1:D:931:VAL:HG23	1:D:934:LEU:N	2.21	0.43
1:D:2014:SER:N	1:E:2591:ARG:HH12	2.16	0.43
1:D:2252:VAL:HG22	1:D:2255:ARG:HH21	1.82	0.43
1:D:2541:ARG:O	1:D:2621:VAL:HG13	2.18	0.43
1:D:2786:ASP:OD2	1:D:2789:MET:HG2	2.19	0.43
1:E:53:SER:HA	1:E:359:ILE:HG13	2.01	0.43
1:E:585:HIS:HD2	1:E:586:SER:H	1.62	0.43
1:E:1084:THR:CG2	1:E:1274:ALA:HA	2.48	0.43
1:E:2014:SER:N	1:F:2591:ARG:HH12	2.16	0.43
1:E:2246:ALA:N	1:E:2255:ARG:HH12	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2552:ASP:OD1	1:E:2552:ASP:N	2.43	0.43
1:E:2695:MET:HG3	1:E:2696:TYR:N	2.34	0.43
1:F:44:TYR:O	1:F:153:VAL:N	2.44	0.43
1:F:436:THR:OG1	1:F:437:PRO:HD3	2.19	0.43
1:F:695:ILE:HG22	1:F:697:GLU:HG3	2.00	0.43
1:F:1021:LEU:HB3	1:F:1034:GLU:HG2	2.01	0.43
1:F:2695:MET:HG3	1:F:2696:TYR:N	2.34	0.43
1:A:44:TYR:O	1:A:153:VAL:N	2.44	0.42
1:A:647:THR:N	2:A:4000:FMN:O3P	2.51	0.42
1:A:2244:ARG:HG2	1:A:2245:VAL:N	2.34	0.42
1:A:2428:PRO:O	1:A:2428:PRO:CG	2.67	0.42
1:A:2580:PHE:HE1	1:A:2603:ARG:HH21	1.66	0.42
1:A:2808:ARG:HH21	1:A:2901:PRO:HD3	1.84	0.42
1:B:1317:GLY:O	1:B:1324:VAL:HG12	2.19	0.42
1:B:2846:ALA:O	1:B:2859:GLY:HA3	2.19	0.42
1:C:45:ALA:O	1:C:351:ILE:HA	2.19	0.42
1:C:78:GLU:HB2	1:C:176:VAL:HG21	2.01	0.42
1:C:276:LYS:HB3	1:C:587:TRP:CH2	2.53	0.42
1:C:307:ILE:HG22	1:C:311:TRP:CE2	2.54	0.42
1:C:657:THR:HB	1:C:662:LYS:HE3	2.00	0.42
1:C:709:LEU:HD21	1:C:872:ARG:NE	2.34	0.42
1:C:954:PRO:O	1:C:965:ASN:N	2.52	0.42
1:C:1705:VAL:O	1:C:1735:GLU:HB2	2.18	0.42
1:C:2737:VAL:N	1:D:2735:HIS:O	2.51	0.42
1:C:2786:ASP:OD2	1:C:2789:MET:HG2	2.19	0.42
1:C:2810:GLY:HA2	1:C:2896:THR:HG22	2.01	0.42
1:C:2903:GLU:OE2	1:C:2995:THR:OG1	2.36	0.42
1:D:583:GLY:HA2	1:D:892:ILE:HD13	2.00	0.42
1:D:885:GLU:HG2	1:D:887:ASP:H	1.84	0.42
1:D:1093:PRO:HB3	1:D:1277:HIS:CE1	2.52	0.42
1:D:2297:ARG:HH12	1:D:2391:LYS:NZ	2.17	0.42
1:E:211:THR:HB	1:E:286:VAL:HB	2.01	0.42
1:E:307:ILE:HG22	1:E:311:TRP:CE2	2.54	0.42
1:E:1013:THR:CG2	1:E:1014:TRP:N	2.58	0.42
1:E:1723:GLU:O	1:E:1725:SER:N	2.51	0.42
1:E:2512:TRP:O	1:E:2520:LEU:HD12	2.19	0.42
1:F:34:LEU:O	1:F:38:LEU:HG	2.19	0.42
1:F:475:LEU:HD23	1:F:475:LEU:HA	1.79	0.42
1:F:580:ARG:HD3	1:F:896:ALA:HB3	2.01	0.42
1:F:664:LEU:HB3	1:F:701:ALA:HB1	1.99	0.42
1:F:874:ASP:OD2	1:F:877:TRP:CD1	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1163:ASP:HA	1:F:1168:ARG:HA	2.01	0.42
1:F:2889:ILE:HB	1:F:2924:ILE:HG12	2.01	0.42
1:A:50:GLY:O	1:A:53:SER:OG	2.36	0.42
1:A:88:SER:HB3	1:A:314:THR:OG1	2.18	0.42
1:A:117:LYS:HZ1	1:C:1087:PHE:HD2	1.67	0.42
1:A:203:ASP:OD2	1:C:1087:PHE:CZ	2.72	0.42
1:A:315:VAL:C	1:A:317:LEU:H	2.22	0.42
1:A:1087:PHE:CZ	1:B:203:ASP:OD2	2.73	0.42
1:A:2096:VAL:CG1	1:A:2097:ALA:N	2.82	0.42
1:A:2753:LYS:HD3	1:A:2753:LYS:HA	1.83	0.42
1:A:2810:GLY:HA2	1:A:2896:THR:HG22	2.01	0.42
1:B:709:LEU:HD21	1:B:872:ARG:NE	2.34	0.42
1:B:780:ARG:NH1	1:B:817:GLU:OE2	2.52	0.42
1:B:1662:ARG:HG3	1:B:1663:LYS:N	2.34	0.42
1:B:2706:PRO:O	1:B:2709:ILE:HG12	2.19	0.42
1:C:163:LEU:HD13	1:C:181:LEU:HD23	2.00	0.42
1:C:544:ILE:O	1:C:546:HIS:N	2.41	0.42
1:C:613:GLY:HA2	2:C:4000:FMN:O5'	2.19	0.42
1:C:780:ARG:NH1	1:C:817:GLU:OE2	2.52	0.42
1:C:2296:ASN:ND2	1:C:2395:THR:HG21	2.34	0.42
1:C:2297:ARG:HH12	1:C:2391:LYS:NZ	2.17	0.42
1:C:2735:HIS:O	1:D:2737:VAL:N	2.51	0.42
1:C:2889:ILE:HB	1:C:2924:ILE:HG12	2.01	0.42
1:D:45:ALA:O	1:D:351:ILE:HA	2.20	0.42
1:D:307:ILE:HG22	1:D:311:TRP:CE2	2.54	0.42
1:D:695:ILE:HG22	1:D:697:GLU:HG3	2.00	0.42
1:D:780:ARG:NH1	1:D:817:GLU:OE2	2.52	0.42
1:D:856:PRO:HG2	1:D:874:ASP:HB2	2.00	0.42
1:E:657:THR:HB	1:E:662:LYS:HE3	2.00	0.42
1:E:780:ARG:NH1	1:E:817:GLU:OE2	2.52	0.42
1:E:931:VAL:HG13	1:E:934:LEU:N	2.21	0.42
1:E:2462:VAL:HG13	1:E:2835:VAL:HG13	2.00	0.42
1:E:2786:ASP:OD2	1:E:2789:MET:HG2	2.19	0.42
1:E:2903:GLU:OE2	1:E:2995:THR:OG1	2.36	0.42
1:F:1352:PHE:HA	1:F:1353:PRO:HD3	1.72	0.42
1:F:2428:PRO:O	1:F:2428:PRO:CG	2.67	0.42
1:A:709:LEU:HD21	1:A:872:ARG:NE	2.34	0.42
1:A:1504:ARG:HA	1:A:1540:SER:O	2.19	0.42
1:A:2452:ASP:CG	1:A:2453:LEU:N	2.73	0.42
1:B:45:ALA:O	1:B:351:ILE:HA	2.20	0.42
1:B:53:SER:HA	1:B:359:ILE:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1634:ARG:NH1	1:B:1639:ALA:H	2.11	0.42
1:B:2297:ARG:HH12	1:B:2391:LYS:NZ	2.17	0.42
1:B:2610:ARG:HD2	1:E:2558:LEU:HD11	2.01	0.42
1:B:2810:GLY:HA2	1:B:2896:THR:HG22	2.01	0.42
1:C:211:THR:HB	1:C:286:VAL:HB	2.01	0.42
1:C:393:VAL:O	1:C:395:GLU:N	2.52	0.42
1:C:436:THR:OG1	1:C:437:PRO:HD3	2.19	0.42
1:C:2244:ARG:HG2	1:C:2245:VAL:N	2.34	0.42
1:C:2452:ASP:CG	1:C:2453:LEU:N	2.73	0.42
1:C:2541:ARG:O	1:C:2621:VAL:HG13	2.18	0.42
1:D:203:ASP:OD2	1:F:1087:PHE:CZ	2.72	0.42
1:D:315:VAL:C	1:D:317:LEU:H	2.22	0.42
1:D:1662:ARG:HG3	1:D:1663:LYS:N	2.34	0.42
1:D:2444:PRO:HB2	1:D:2988:PRO:HB3	2.01	0.42
1:E:583:GLY:HA2	1:E:892:ILE:HD13	2.00	0.42
1:E:874:ASP:OD2	1:E:877:TRP:CD1	2.72	0.42
1:E:1662:ARG:HG3	1:E:1663:LYS:N	2.34	0.42
1:F:341:THR:HG23	1:F:344:HIS:ND1	2.34	0.42
1:F:709:LEU:HD21	1:F:872:ARG:NE	2.34	0.42
1:F:780:ARG:NH1	1:F:817:GLU:OE2	2.52	0.42
1:F:1117:ALA:HA	1:F:1120:GLU:HB2	2.01	0.42
1:F:2786:ASP:OD2	1:F:2789:MET:HG2	2.19	0.42
1:A:336:TRP:HE3	1:A:339:GLU:OE2	2.03	0.42
1:A:816:LEU:HD23	1:A:816:LEU:HA	1.83	0.42
1:A:1280:THR:O	1:A:1288:PRO:HB3	2.20	0.42
1:A:1551:LEU:HD13	1:A:1551:LEU:HA	1.79	0.42
1:A:2530:TYR:O	1:A:2533:ALA:N	2.52	0.42
1:A:2889:ILE:HG13	1:A:2922:LEU:HD13	2.02	0.42
1:A:2911:ALA:O	1:A:2916:ARG:HB2	2.20	0.42
1:B:664:LEU:HB3	1:B:701:ALA:HB1	1.99	0.42
1:B:970:ILE:HG23	1:B:992:THR:HG21	2.00	0.42
1:B:1084:THR:CG2	1:B:1274:ALA:HA	2.48	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:N	2.73	0.42
1:B:2557:LEU:HB3	1:B:2613:ARG:HB2	2.01	0.42
1:B:2891:LYS:HZ2	1:B:2903:GLU:HG2	1.84	0.42
1:B:2957:PRO:HB3	1:B:2980:PRO:N	2.34	0.42
1:C:856:PRO:HG2	1:C:874:ASP:HB2	2.00	0.42
1:C:931:VAL:HG13	1:C:934:LEU:N	2.21	0.42
1:C:2141:VAL:HG22	1:C:2238:PHE:HD2	1.85	0.42
1:C:2855:ALA:HA	1:C:2856:PRO:HD3	1.93	0.42
1:D:613:GLY:HA2	2:D:4000:FMN:O5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1280:THR:O	1:D:1288:PRO:HB3	2.20	0.42
1:D:2141:VAL:HG22	1:D:2238:PHE:HD2	1.84	0.42
1:D:2244:ARG:HG2	1:D:2245:VAL:N	2.34	0.42
1:D:2889:ILE:HB	1:D:2924:ILE:HG12	2.01	0.42
1:D:2891:LYS:NZ	1:D:2903:GLU:HB3	2.35	0.42
1:D:2957:PRO:HB3	1:D:2980:PRO:N	2.34	0.42
1:E:658:SER:HB2	1:E:661:VAL:HG23	2.01	0.42
1:E:1504:ARG:HA	1:E:1540:SER:O	2.19	0.42
1:F:1133:VAL:N	1:F:1193:ALA:O	2.48	0.42
1:F:1317:GLY:O	1:F:1324:VAL:HG12	2.19	0.42
1:A:211:THR:HB	1:A:286:VAL:HB	2.02	0.42
1:A:2512:TRP:O	1:A:2520:LEU:HD12	2.19	0.42
1:A:2737:VAL:HG11	1:F:2715:PRO:HD2	2.02	0.42
1:A:2891:LYS:HZ1	1:A:2903:GLU:HB3	1.84	0.42
1:A:2891:LYS:NZ	1:A:2903:GLU:HB3	2.35	0.42
1:A:2957:PRO:HB3	1:A:2980:PRO:N	2.34	0.42
1:B:336:TRP:HE3	1:B:339:GLU:OE2	2.03	0.42
1:B:475:LEU:HA	1:B:475:LEU:HD23	1.79	0.42
1:B:885:GLU:HG2	1:B:887:ASP:H	1.84	0.42
1:B:1280:THR:O	1:B:1288:PRO:HB3	2.20	0.42
1:B:2805:ASP:OD2	1:B:2807:ARG:HB2	2.20	0.42
1:C:1070:VAL:N	1:C:1152:PHE:O	2.51	0.42
1:C:1280:THR:O	1:C:1288:PRO:HB3	2.20	0.42
1:C:2846:ALA:O	1:C:2859:GLY:HA3	2.19	0.42
1:C:2957:PRO:HB3	1:C:2980:PRO:N	2.35	0.42
1:D:163:LEU:HD13	1:D:181:LEU:HD23	2.00	0.42
1:D:511:ARG:CB	1:D:540:ASN:HB2	2.46	0.42
1:D:1106:CYS:SG	1:D:1174:VAL:HG11	2.60	0.42
1:D:2428:PRO:O	1:D:2428:PRO:CG	2.68	0.42
1:D:2557:LEU:HB3	1:D:2613:ARG:HB2	2.01	0.42
1:D:2911:ALA:O	1:D:2916:ARG:HB2	2.19	0.42
1:E:45:ALA:O	1:E:351:ILE:HA	2.20	0.42
1:E:816:LEU:HD23	1:E:816:LEU:HA	1.82	0.42
1:E:1275:ALA:O	1:E:1279:VAL:HG23	2.20	0.42
1:E:2141:VAL:HG22	1:E:2238:PHE:HD2	1.85	0.42
1:E:2452:ASP:CG	1:E:2453:LEU:N	2.73	0.42
1:E:2530:TYR:O	1:E:2533:ALA:N	2.52	0.42
1:F:107:LEU:HD13	1:F:113:VAL:HB	2.02	0.42
1:F:211:THR:HB	1:F:286:VAL:HB	2.01	0.42
1:F:340:ILE:HD11	1:F:351:ILE:HD13	2.00	0.42
1:F:479:LEU:HD21	1:F:485:ILE:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1093:PRO:HB3	1:F:1277:HIS:CE1	2.52	0.42
1:F:2055:VAL:HG22	1:F:2194:TRP:CD1	2.55	0.42
1:F:2115:HIS:HA	1:F:2118:LEU:CG	2.49	0.42
1:F:2557:LEU:HB3	1:F:2613:ARG:HB2	2.01	0.42
1:A:340:ILE:HD11	1:A:351:ILE:HD13	2.01	0.42
1:A:436:THR:OG1	1:A:437:PRO:HD3	2.19	0.42
1:A:438:THR:HA	1:A:880:HIS:CE1	2.51	0.42
1:A:559:SER:O	1:A:563:ILE:HG12	2.20	0.42
1:A:1093:PRO:HB3	1:A:1277:HIS:CE1	2.52	0.42
1:A:1163:ASP:HA	1:A:1168:ARG:HA	2.01	0.42
1:A:2444:PRO:HB2	1:A:2988:PRO:HB3	2.01	0.42
1:A:2620:THR:OG1	1:A:2791:ARG:NH2	2.52	0.42
1:A:2695:MET:HG3	1:A:2696:TYR:N	2.34	0.42
1:B:211:THR:HB	1:B:286:VAL:HB	2.01	0.42
1:B:340:ILE:HD11	1:B:351:ILE:HD13	2.01	0.42
1:B:479:LEU:HD21	1:B:485:ILE:HD11	2.02	0.42
1:B:613:GLY:HA2	2:B:4000:FMN:O5'	2.19	0.42
1:B:1275:ALA:O	1:B:1279:VAL:HG23	2.20	0.42
1:B:1656:LYS:N	1:B:1657:PRO:HD2	2.35	0.42
1:B:2449:GLU:O	1:B:2449:GLU:CG	2.68	0.42
1:B:2584:ASP:O	1:B:2586:GLU:N	2.53	0.42
1:B:2800:PHE:CZ	1:B:2812:LEU:HD13	2.55	0.42
1:C:81:LEU:HD23	1:C:81:LEU:HA	1.88	0.42
1:C:885:GLU:HG2	1:C:887:ASP:H	1.84	0.42
1:C:1317:GLY:O	1:C:1324:VAL:HG12	2.19	0.42
1:C:1656:LYS:N	1:C:1657:PRO:HD2	2.35	0.42
1:C:2055:VAL:HG22	1:C:2194:TRP:CD1	2.55	0.42
1:C:2428:PRO:O	1:C:2428:PRO:CG	2.67	0.42
1:C:2911:ALA:O	1:C:2916:ARG:HB2	2.19	0.42
1:D:668:THR:HG23	1:D:683:GLY:HA3	2.02	0.42
1:D:957:LEU:O	1:D:1034:GLU:HB2	2.20	0.42
1:D:1021:LEU:HB3	1:D:1034:GLU:HG2	2.01	0.42
1:D:2286:ARG:HD3	1:D:2331:SER:OG	2.20	0.42
1:D:2892:HIS:HA	1:D:2942:GLN:HE22	1.85	0.42
1:E:479:LEU:HD21	1:E:485:ILE:HD11	2.02	0.42
1:E:782:ARG:HH11	1:E:857:VAL:HG22	1.83	0.42
1:E:1008:VAL:O	1:E:1008:VAL:CG2	2.67	0.42
1:E:1117:ALA:HA	1:E:1120:GLU:HB2	2.01	0.42
1:E:1275:ALA:HB2	1:E:1311:PHE:CE2	2.55	0.42
1:E:2805:ASP:OD2	1:E:2807:ARG:HB2	2.20	0.42
1:E:2958:ASN:HD22	1:E:2976:TRP:HE1	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:53:SER:HA	1:F:359:ILE:HG13	2.01	0.42
1:F:2244:ARG:HG2	1:F:2245:VAL:N	2.34	0.42
1:F:2808:ARG:HH21	1:F:2901:PRO:HD3	1.85	0.42
1:F:2911:ALA:O	1:F:2916:ARG:HB2	2.19	0.42
1:F:2957:PRO:HB3	1:F:2980:PRO:N	2.34	0.42
1:A:970:ILE:O	1:A:974:THR:HG22	2.20	0.42
1:A:1021:LEU:HB3	1:A:1034:GLU:HG2	2.01	0.42
1:A:2055:VAL:HG22	1:A:2194:TRP:CD1	2.55	0.42
1:A:2557:LEU:HB3	1:A:2613:ARG:HB2	2.02	0.42
1:A:2557:LEU:CG	1:F:2702:GLY:HA3	2.45	0.42
1:A:2558:LEU:HD11	1:F:2610:ARG:HD2	2.01	0.42
1:B:1021:LEU:HB3	1:B:1034:GLU:HG2	2.01	0.42
1:B:1087:PHE:CZ	1:C:203:ASP:OD2	2.72	0.42
1:B:1106:CYS:SG	1:B:1174:VAL:HG11	2.60	0.42
1:B:1275:ALA:HB2	1:B:1311:PHE:CE2	2.55	0.42
1:B:2294:SER:HB3	1:B:2310:LYS:HB2	2.02	0.42
1:B:2891:LYS:NZ	1:B:2903:GLU:HB3	2.35	0.42
1:B:2911:ALA:O	1:B:2916:ARG:HB2	2.20	0.42
1:C:479:LEU:HD21	1:C:485:ILE:HD11	2.02	0.42
1:C:970:ILE:O	1:C:974:THR:HG22	2.20	0.42
1:C:2294:SER:HB3	1:C:2310:LYS:HB2	2.02	0.42
1:D:1120:GLU:HA	1:D:1125:VAL:CG2	2.50	0.42
1:D:1133:VAL:N	1:D:1193:ALA:O	2.48	0.42
1:D:1703:ILE:HG22	1:D:1704:GLY:H	1.85	0.42
1:D:2055:VAL:HG22	1:D:2194:TRP:CD1	2.55	0.42
1:D:2294:SER:HB3	1:D:2310:LYS:HB2	2.02	0.42
1:E:957:LEU:O	1:E:1034:GLU:HB2	2.20	0.42
1:E:1087:PHE:CZ	1:F:203:ASP:OD2	2.72	0.42
1:E:1133:VAL:O	1:E:1193:ALA:N	2.42	0.42
1:E:1280:THR:O	1:E:1288:PRO:HB3	2.20	0.42
1:E:2428:PRO:O	1:E:2428:PRO:CG	2.67	0.42
1:E:2620:THR:OG1	1:E:2791:ARG:NH2	2.53	0.42
1:F:315:VAL:C	1:F:317:LEU:H	2.22	0.42
1:F:559:SER:O	1:F:563:ILE:HG12	2.20	0.42
1:F:613:GLY:HA2	2:F:4000:FMN:O5'	2.19	0.42
1:F:782:ARG:HH11	1:F:857:VAL:HG22	1.83	0.42
1:F:1106:CYS:SG	1:F:1174:VAL:HG11	2.60	0.42
1:F:2088:ARG:C	1:F:2188:ARG:NH1	2.72	0.42
1:F:2096:VAL:CG1	1:F:2097:ALA:N	2.82	0.42
1:F:2300:PHE:HZ	1:F:2398:LEU:HB3	1.85	0.42
1:A:307:ILE:HG22	1:A:311:TRP:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:VAL:O	1:A:395:GLU:N	2.53	0.42
1:A:885:GLU:HG2	1:A:887:ASP:H	1.84	0.42
1:A:1008:VAL:CG2	1:A:1008:VAL:O	2.67	0.42
1:A:1084:THR:CG2	1:A:1274:ALA:HA	2.48	0.42
1:A:2032:VAL:HG11	1:E:2032:VAL:HG11	2.00	0.42
1:A:2300:PHE:HZ	1:A:2398:LEU:HB3	1.85	0.42
1:A:2563:LEU:HD21	1:A:2567:PHE:HB2	2.02	0.42
1:A:2786:ASP:OD2	1:A:2789:MET:HG2	2.19	0.42
1:A:2891:LYS:HZ2	1:A:2903:GLU:HG2	1.84	0.42
1:A:3080:ARG:HG3	1:A:3080:ARG:NH1	2.09	0.42
1:B:107:LEU:HD13	1:B:113:VAL:HB	2.01	0.42
1:B:1228:VAL:HB	1:B:1311:PHE:HB2	2.02	0.42
1:B:2141:VAL:HG22	1:B:2238:PHE:HD2	1.85	0.42
1:B:2558:LEU:HB2	1:E:2701:LEU:HD23	2.02	0.42
1:B:2889:ILE:HG13	1:B:2922:LEU:HD13	2.02	0.42
1:C:1275:ALA:HB2	1:C:1311:PHE:CE2	2.55	0.42
1:C:2354:SER:O	1:C:2358:GLU:HG3	2.20	0.42
1:C:2449:GLU:O	1:C:2449:GLU:CG	2.68	0.42
1:C:2620:THR:OG1	1:C:2791:ARG:NH2	2.52	0.42
1:C:2695:MET:HG3	1:C:2696:TYR:N	2.34	0.42
1:C:2892:HIS:HA	1:C:2942:GLN:HE22	1.85	0.42
1:D:1656:LYS:N	1:D:1657:PRO:HD2	2.35	0.42
1:D:2503:LYS:HG3	1:D:2513:TYR:HB2	2.02	0.42
1:D:2530:TYR:O	1:D:2533:ALA:N	2.52	0.42
1:D:2695:MET:HG3	1:D:2696:TYR:N	2.34	0.42
1:E:210:VAL:HG22	1:E:287:PHE:HD1	1.83	0.42
1:E:885:GLU:HG2	1:E:887:ASP:H	1.84	0.42
1:E:1120:GLU:HA	1:E:1125:VAL:CG2	2.50	0.42
1:E:2452:ASP:CG	1:E:2453:LEU:H	2.23	0.42
1:F:78:GLU:HB2	1:F:176:VAL:HG21	2.01	0.42
1:F:336:TRP:HE3	1:F:339:GLU:OE2	2.03	0.42
1:F:1687:PHE:CE1	1:F:1723:GLU:HG2	2.55	0.42
1:F:2444:PRO:HB2	1:F:2988:PRO:HB3	2.01	0.42
1:F:2452:ASP:CG	1:F:2453:LEU:H	2.23	0.42
1:F:2846:ALA:O	1:F:2859:GLY:HA3	2.20	0.42
1:A:341:THR:HG23	1:A:344:HIS:ND1	2.34	0.42
1:A:756:LEU:HD13	1:A:859:PHE:CD2	2.55	0.42
1:A:1133:VAL:N	1:A:1193:ALA:O	2.48	0.42
1:A:2449:GLU:O	1:A:2449:GLU:CG	2.68	0.42
1:A:2805:ASP:OD2	1:A:2807:ARG:HB2	2.20	0.42
1:B:669:LYS:O	1:B:682:ASN:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:856:PRO:HG2	1:B:874:ASP:HB2	2.00	0.42
1:B:1120:GLU:HA	1:B:1125:VAL:CG2	2.50	0.42
1:B:2014:SER:N	1:C:2591:ARG:HH12	2.16	0.42
1:B:2244:ARG:HG2	1:B:2245:VAL:N	2.34	0.42
1:B:2428:PRO:O	1:B:2428:PRO:CG	2.67	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:H	2.23	0.42
1:C:1021:LEU:HB3	1:C:1034:GLU:HG2	2.01	0.42
1:C:1662:ARG:HG3	1:C:1663:LYS:N	2.34	0.42
1:C:2300:PHE:HZ	1:C:2398:LEU:HB3	1.85	0.42
1:D:1228:VAL:HB	1:D:1311:PHE:HB2	2.02	0.42
1:D:1275:ALA:HB2	1:D:1311:PHE:CE2	2.55	0.42
1:D:1491:ASP:HB2	1:D:1495:ARG:HB2	2.02	0.42
1:D:1611:ILE:HG23	1:D:1624:THR:HA	2.02	0.42
1:D:2354:SER:O	1:D:2358:GLU:HG3	2.20	0.42
1:D:2512:TRP:O	1:D:2520:LEU:HD12	2.19	0.42
1:E:613:GLY:HA2	2:E:4000:FMN:O5'	2.19	0.42
1:E:668:THR:HG23	1:E:683:GLY:HA3	2.02	0.42
1:E:928:ALA:HB1	1:E:931:VAL:CB	2.50	0.42
1:E:1656:LYS:N	1:E:1657:PRO:HD2	2.35	0.42
1:E:2244:ARG:HG2	1:E:2245:VAL:N	2.34	0.42
1:E:2584:ASP:O	1:E:2586:GLU:N	2.53	0.42
1:E:2889:ILE:HG13	1:E:2922:LEU:HD13	2.02	0.42
1:E:2889:ILE:HB	1:E:2924:ILE:HG12	2.01	0.42
1:E:2911:ALA:O	1:E:2916:ARG:HB2	2.19	0.42
1:E:2957:PRO:HB3	1:E:2980:PRO:N	2.35	0.42
1:A:1106:CYS:SG	1:A:1174:VAL:HG11	2.60	0.42
1:A:1120:GLU:HA	1:A:1125:VAL:CG2	2.50	0.42
1:A:1275:ALA:O	1:A:1279:VAL:HG23	2.20	0.42
1:A:1317:GLY:O	1:A:1324:VAL:HG12	2.19	0.42
1:A:2610:ARG:HD2	1:F:2558:LEU:HD11	2.01	0.42
1:A:2701:LEU:HD23	1:F:2558:LEU:HB2	2.02	0.42
1:A:2845:PHE:N	1:A:3003:SER:O	2.46	0.42
1:B:756:LEU:HD13	1:B:859:PHE:CD2	2.55	0.42
1:B:2286:ARG:HD3	1:B:2331:SER:OG	2.20	0.42
1:B:2614:LYS:HZ2	1:E:2583:PHE:HB2	1.85	0.42
1:B:2786:ASP:OD2	1:B:2789:MET:HG2	2.19	0.42
1:B:2892:HIS:HA	1:B:2942:GLN:HE22	1.85	0.42
1:C:107:LEU:HD13	1:C:113:VAL:HB	2.01	0.42
1:C:1084:THR:CG2	1:C:1274:ALA:HA	2.49	0.42
1:C:1380:ALA:HB1	1:C:1474:LEU:CD1	2.50	0.42
1:C:2503:LYS:HG3	1:C:2513:TYR:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2805:ASP:OD2	1:C:2807:ARG:HB2	2.20	0.42
1:D:436:THR:OG1	1:D:437:PRO:HD3	2.19	0.42
1:D:585:HIS:HD2	1:D:586:SER:H	1.62	0.42
1:D:709:LEU:HD21	1:D:872:ARG:NE	2.34	0.42
1:D:1580:PRO:O	1:D:1583:SER:OG	2.23	0.42
1:D:2297:ARG:HH22	1:D:2391:LYS:HZ3	1.68	0.42
1:D:2300:PHE:HZ	1:D:2398:LEU:HB3	1.85	0.42
1:D:2800:PHE:CZ	1:D:2812:LEU:HD13	2.55	0.42
1:D:2961:LEU:HD22	1:D:2976:TRP:HD1	1.85	0.42
1:E:1228:VAL:HB	1:E:1311:PHE:HB2	2.02	0.42
1:E:1684:ASP:HA	1:E:1687:PHE:HD2	1.82	0.42
1:E:2055:VAL:HG22	1:E:2194:TRP:CD1	2.55	0.42
1:E:2354:SER:O	1:E:2358:GLU:HG3	2.20	0.42
1:F:488:ASN:OD1	1:F:523:SER:OG	2.34	0.42
1:F:928:ALA:HB1	1:F:931:VAL:CB	2.50	0.42
1:F:970:ILE:O	1:F:974:THR:HG22	2.20	0.42
1:F:2620:THR:OG1	1:F:2791:ARG:NH2	2.53	0.42
1:F:2800:PHE:CZ	1:F:2812:LEU:HD13	2.55	0.42
1:F:2805:ASP:OD2	1:F:2807:ARG:HB2	2.20	0.42
1:A:266:ALA:O	1:A:270:GLU:HG3	2.20	0.41
1:A:668:THR:HG23	1:A:683:GLY:HA3	2.02	0.41
1:A:1117:ALA:HA	1:A:1120:GLU:HB2	2.01	0.41
1:B:1117:ALA:HA	1:B:1120:GLU:HB2	2.01	0.41
1:B:1399:ASN:HA	1:B:1400:PRO:HD3	1.86	0.41
1:B:1706:LYS:HA	1:B:1735:GLU:HG3	2.02	0.41
1:B:2354:SER:O	1:B:2358:GLU:HG3	2.20	0.41
1:B:2620:THR:OG1	1:B:2791:ARG:NH2	2.53	0.41
1:B:2701:LEU:HD23	1:E:2558:LEU:HB2	2.02	0.41
1:C:266:ALA:O	1:C:270:GLU:HG3	2.20	0.41
1:C:369:ARG:HD2	1:C:369:ARG:HA	1.85	0.41
1:C:795:HIS:NE2	1:C:797:GLN:HB2	2.35	0.41
1:C:1637:VAL:HA	1:C:1638:PRO:HD2	1.91	0.41
1:C:1733:ASN:H	1:C:1737:ASP:HB2	1.83	0.41
1:C:2800:PHE:CZ	1:C:2812:LEU:HD13	2.55	0.41
1:D:50:GLY:O	1:D:53:SER:OG	2.36	0.41
1:D:70:SER:HG	1:D:142:ARG:HH22	1.64	0.41
1:D:211:THR:HB	1:D:286:VAL:HB	2.01	0.41
1:D:417:LEU:HD21	1:D:625:LEU:HD21	2.02	0.41
1:D:669:LYS:O	1:D:682:ASN:HB3	2.20	0.41
1:D:1412:HIS:HD2	1:D:1413:PRO:CD	2.31	0.41
1:D:2096:VAL:CG1	1:D:2097:ALA:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2452:ASP:CG	1:D:2453:LEU:N	2.73	0.41
1:D:2584:ASP:O	1:D:2586:GLU:N	2.53	0.41
1:D:2591:ARG:HH12	1:F:2014:SER:H	1.65	0.41
1:D:2889:ILE:HG13	1:D:2922:LEU:HD13	2.02	0.41
1:E:669:LYS:O	1:E:682:ASN:HB3	2.20	0.41
1:E:1460:ALA:O	1:E:1464:VAL:HG22	2.20	0.41
1:E:1491:ASP:HB2	1:E:1495:ARG:HB2	2.02	0.41
1:E:2294:SER:HB3	1:E:2310:LYS:HB2	2.02	0.41
1:E:2297:ARG:HH12	1:E:2391:LYS:NZ	2.17	0.41
1:E:2810:GLY:HA2	1:E:2896:THR:HG22	2.01	0.41
1:F:45:ALA:O	1:F:351:ILE:HA	2.20	0.41
1:F:266:ALA:O	1:F:270:GLU:HG3	2.20	0.41
1:F:1611:ILE:HG23	1:F:1624:THR:HA	2.02	0.41
1:F:1619:VAL:HA	1:F:1620:PRO:HD2	1.80	0.41
1:F:2584:ASP:O	1:F:2586:GLU:N	2.53	0.41
1:F:2889:ILE:HG13	1:F:2922:LEU:HD13	2.02	0.41
1:F:2891:LYS:NZ	1:F:2903:GLU:HB3	2.35	0.41
1:A:613:GLY:HA2	2:A:4000:FMN:O5'	2.19	0.41
1:A:928:ALA:HB1	1:A:931:VAL:CB	2.50	0.41
1:A:1611:ILE:HG23	1:A:1624:THR:HA	2.02	0.41
1:A:1687:PHE:CE1	1:A:1723:GLU:HG2	2.55	0.41
1:A:1703:ILE:HG22	1:A:1704:GLY:H	1.85	0.41
1:A:2555:SER:HA	1:A:2556:PRO:HD2	1.85	0.41
1:B:393:VAL:O	1:B:395:GLU:N	2.52	0.41
1:B:1380:ALA:HB1	1:B:1474:LEU:CD1	2.50	0.41
1:B:1687:PHE:CE1	1:B:1723:GLU:HG2	2.55	0.41
1:B:2055:VAL:HG22	1:B:2194:TRP:CD1	2.55	0.41
1:B:2702:GLY:HA3	1:E:2557:LEU:CG	2.46	0.41
1:C:2492:VAL:HG12	1:C:2526:ILE:HG22	2.02	0.41
1:C:2558:LEU:HB2	1:D:2701:LEU:HD23	2.02	0.41
1:C:2808:ARG:HH21	1:C:2901:PRO:HD3	1.85	0.41
1:D:53:SER:HA	1:D:359:ILE:HG13	2.01	0.41
1:D:160:GLN:HA	1:D:329:ILE:HD13	2.03	0.41
1:D:393:VAL:O	1:D:395:GLU:N	2.52	0.41
1:D:479:LEU:HD21	1:D:485:ILE:HD11	2.02	0.41
1:D:756:LEU:HD13	1:D:859:PHE:CD2	2.55	0.41
1:D:970:ILE:O	1:D:974:THR:HG22	2.20	0.41
1:D:1095:LEU:HD23	1:D:1098:VAL:HA	2.02	0.41
1:D:1275:ALA:O	1:D:1279:VAL:HG23	2.20	0.41
1:D:1380:ALA:HB1	1:D:1474:LEU:CD1	2.50	0.41
1:D:1660:LEU:HD23	1:D:1660:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2299:MET:H	1:D:2299:MET:HG2	1.68	0.41
1:D:2710:LEU:HD12	1:D:2713:VAL:HG21	2.03	0.41
1:D:2805:ASP:OD2	1:D:2807:ARG:HB2	2.20	0.41
1:D:2846:ALA:O	1:D:2859:GLY:HA3	2.20	0.41
1:E:78:GLU:HB2	1:E:176:VAL:HG21	2.01	0.41
1:E:795:HIS:NE2	1:E:797:GLN:HB2	2.35	0.41
1:E:1380:ALA:HB1	1:E:1474:LEU:CD1	2.50	0.41
1:E:2096:VAL:CG2	1:E:2097:ALA:N	2.82	0.41
1:F:1280:THR:O	1:F:1288:PRO:HB3	2.20	0.41
1:F:1637:VAL:HA	1:F:1638:PRO:HD2	1.91	0.41
1:F:2452:ASP:CG	1:F:2453:LEU:N	2.73	0.41
1:A:53:SER:HA	1:A:359:ILE:HG13	2.01	0.41
1:A:78:GLU:HB2	1:A:176:VAL:HG21	2.01	0.41
1:A:107:LEU:HD13	1:A:113:VAL:HB	2.02	0.41
1:A:160:GLN:HA	1:A:329:ILE:HD13	2.02	0.41
1:A:1656:LYS:N	1:A:1657:PRO:HD2	2.35	0.41
1:A:2294:SER:HB3	1:A:2310:LYS:HB2	2.02	0.41
1:A:2584:ASP:O	1:A:2586:GLU:N	2.53	0.41
1:B:160:GLN:HA	1:B:329:ILE:HD13	2.02	0.41
1:B:1491:ASP:HB2	1:B:1495:ARG:HB2	2.02	0.41
1:B:1703:ILE:HG22	1:B:1704:GLY:H	1.85	0.41
1:B:2891:LYS:HZ1	1:B:2903:GLU:HB3	1.85	0.41
1:C:53:SER:HA	1:C:359:ILE:HG13	2.01	0.41
1:C:70:SER:HG	1:C:142:ARG:NH2	2.16	0.41
1:C:160:GLN:HA	1:C:329:ILE:HD13	2.02	0.41
1:C:202:GLY:O	1:C:289:PRO:HD2	2.21	0.41
1:C:1228:VAL:HB	1:C:1311:PHE:HB2	2.02	0.41
1:C:1703:ILE:HG22	1:C:1704:GLY:H	1.85	0.41
1:C:1706:LYS:HA	1:C:1735:GLU:HG3	2.03	0.41
1:C:2205:ASP:O	1:C:2209:LEU:HB2	2.21	0.41
1:C:2610:ARG:HD2	1:D:2558:LEU:HD11	2.01	0.41
1:D:1706:LYS:HA	1:D:1735:GLU:HG3	2.03	0.41
1:D:2449:GLU:O	1:D:2449:GLU:CG	2.68	0.41
1:E:341:THR:HG23	1:E:344:HIS:ND1	2.34	0.41
1:E:511:ARG:CB	1:E:540:ASN:HB2	2.46	0.41
1:E:559:SER:O	1:E:563:ILE:HG12	2.20	0.41
1:E:1687:PHE:CE1	1:E:1723:GLU:HG2	2.55	0.41
1:E:2449:GLU:O	1:E:2449:GLU:CG	2.68	0.41
1:E:2503:LYS:HG3	1:E:2513:TYR:HB2	2.02	0.41
1:E:2610:ARG:NH1	1:E:2700:LEU:HD11	2.25	0.41
1:E:2800:PHE:CZ	1:E:2812:LEU:HD13	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2846:ALA:O	1:E:2859:GLY:HA3	2.20	0.41
1:F:393:VAL:O	1:F:395:GLU:N	2.53	0.41
1:F:885:GLU:HG2	1:F:887:ASP:H	1.84	0.41
1:F:957:LEU:O	1:F:1034:GLU:HB2	2.20	0.41
1:F:1013:THR:CG2	1:F:1014:TRP:H	1.96	0.41
1:F:1228:VAL:HB	1:F:1311:PHE:HB2	2.02	0.41
1:F:1460:ALA:O	1:F:1464:VAL:HG22	2.20	0.41
1:F:2134:TYR:HB3	1:F:2189:PHE:HD2	1.85	0.41
1:F:2296:ASN:ND2	1:F:2395:THR:HG21	2.34	0.41
1:F:2297:ARG:HH22	1:F:2391:LYS:HZ3	1.67	0.41
1:F:2354:SER:O	1:F:2358:GLU:HG3	2.20	0.41
1:A:45:ALA:O	1:A:351:ILE:HA	2.20	0.41
1:A:618:PRO:HB3	1:A:915:PHE:HA	2.02	0.41
1:A:795:HIS:NE2	1:A:797:GLN:HB2	2.35	0.41
1:A:2141:VAL:HG22	1:A:2238:PHE:HD2	1.85	0.41
1:A:2735:HIS:O	1:F:2737:VAL:HG23	2.21	0.41
1:A:2800:PHE:CE1	1:A:2812:LEU:HD22	2.50	0.41
1:B:417:LEU:HD21	1:B:625:LEU:HD21	2.02	0.41
1:B:436:THR:OG1	1:B:437:PRO:HD3	2.19	0.41
1:B:795:HIS:NE2	1:B:797:GLN:HB2	2.35	0.41
1:B:1611:ILE:HG23	1:B:1624:THR:HA	2.02	0.41
1:B:2180:LYS:HZ1	1:B:2962:ASP:HB3	1.84	0.41
1:B:2715:PRO:HD2	1:E:2737:VAL:HG11	2.02	0.41
1:B:2961:LEU:HD22	1:B:2976:TRP:HD1	1.85	0.41
1:C:42:GLU:HA	1:C:43:PRO:HD3	1.91	0.41
1:C:488:ASN:OD1	1:C:523:SER:OG	2.34	0.41
1:C:668:THR:HG23	1:C:683:GLY:HA3	2.02	0.41
1:C:957:LEU:O	1:C:1034:GLU:HB2	2.20	0.41
1:C:2557:LEU:HB3	1:C:2613:ARG:HB2	2.01	0.41
1:C:2584:ASP:O	1:C:2586:GLU:N	2.53	0.41
1:D:1087:PHE:CZ	1:E:203:ASP:OD2	2.72	0.41
1:D:1533:VAL:N	1:D:1543:ALA:O	2.52	0.41
1:D:2180:LYS:HZ1	1:D:2962:ASP:HB3	1.84	0.41
1:D:2452:ASP:CG	1:D:2453:LEU:H	2.23	0.41
1:D:2563:LEU:HD21	1:D:2567:PHE:HB2	2.02	0.41
1:E:336:TRP:HE3	1:E:339:GLU:OE2	2.03	0.41
1:E:393:VAL:O	1:E:395:GLU:N	2.53	0.41
1:E:970:ILE:O	1:E:974:THR:HG22	2.20	0.41
1:E:1106:CYS:SG	1:E:1174:VAL:HG11	2.60	0.41
1:E:1412:HIS:CD2	1:E:1413:PRO:HD2	2.49	0.41
1:E:1703:ILE:HG22	1:E:1704:GLY:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2563:LEU:HD21	1:E:2567:PHE:HB2	2.02	0.41
1:F:1120:GLU:HA	1:F:1125:VAL:CG2	2.50	0.41
1:F:1380:ALA:HB1	1:F:1474:LEU:CD1	2.50	0.41
1:F:1462:ALA:HB2	1:F:1468:TYR:CE1	2.56	0.41
1:F:1656:LYS:N	1:F:1657:PRO:HD2	2.35	0.41
1:A:417:LEU:HD21	1:A:625:LEU:HD21	2.02	0.41
1:A:1095:LEU:HD23	1:A:1098:VAL:HA	2.03	0.41
1:A:1380:ALA:HB1	1:A:1474:LEU:CD1	2.50	0.41
1:A:2296:ASN:ND2	1:A:2395:THR:HG21	2.34	0.41
1:B:78:GLU:HB2	1:B:176:VAL:HG21	2.01	0.41
1:B:360:LEU:HA	1:B:363:LEU:HB3	2.02	0.41
1:B:2014:SER:H	1:C:2591:ARG:NH1	2.19	0.41
1:B:2483:VAL:HG13	1:B:2954:VAL:HG11	2.03	0.41
1:B:2700:LEU:HD22	1:E:2697:HIS:CD2	2.43	0.41
1:B:2919:GLY:O	1:B:2921:PRO:HD3	2.21	0.41
1:C:358:ASP:OD2	1:C:361:THR:HB	2.21	0.41
1:C:587:TRP:CZ2	1:C:694:ASP:OD2	2.74	0.41
1:C:709:LEU:HD11	1:C:872:ARG:CZ	2.51	0.41
1:C:928:ALA:HB1	1:C:931:VAL:CB	2.50	0.41
1:C:2134:TYR:HB3	1:C:2189:PHE:HD2	1.85	0.41
1:C:2710:LEU:HD12	1:C:2713:VAL:HG21	2.03	0.41
1:C:2737:VAL:HG11	1:D:2715:PRO:HD2	2.02	0.41
1:C:2770:LEU:CB	1:C:2815:GLN:HB3	2.51	0.41
1:D:266:ALA:O	1:D:270:GLU:HG3	2.20	0.41
1:D:1087:PHE:HD2	1:E:117:LYS:HZ1	1.67	0.41
1:D:2808:ARG:HH21	1:D:2901:PRO:HD3	1.85	0.41
1:E:180:ALA:O	1:E:184:LEU:HG	2.21	0.41
1:E:233:LEU:HB3	1:E:251:THR:OG1	2.21	0.41
1:E:618:PRO:HB3	1:E:915:PHE:HA	2.02	0.41
1:E:745:THR:OG1	1:E:834:GLU:O	2.19	0.41
1:E:793:ARG:HH12	1:E:2523:GLU:CD	2.24	0.41
1:E:1247:ASN:HA	1:E:1248:PRO:HD3	1.83	0.41
1:E:1619:VAL:HA	1:E:1620:PRO:HD2	1.80	0.41
1:E:2134:TYR:HB3	1:E:2189:PHE:HD2	1.85	0.41
1:E:2808:ARG:HH21	1:E:2901:PRO:HD3	1.85	0.41
1:E:2919:GLY:O	1:E:2921:PRO:HD3	2.21	0.41
1:F:202:GLY:O	1:F:289:PRO:HD2	2.20	0.41
1:F:233:LEU:HB3	1:F:251:THR:OG1	2.21	0.41
1:F:756:LEU:HD13	1:F:859:PHE:CD2	2.55	0.41
1:F:2449:GLU:O	1:F:2449:GLU:CG	2.68	0.41
1:A:233:LEU:HB3	1:A:251:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:358:ASP:OD2	1:A:361:THR:HB	2.21	0.41
1:A:374:GLY:C	1:A:375:ILE:HG13	2.41	0.41
1:A:1275:ALA:HB2	1:A:1311:PHE:CE2	2.55	0.41
1:A:1504:ARG:HA	1:A:1505:PRO:HD2	1.93	0.41
1:A:2098:THR:HG23	1:A:2099:GLN:N	2.36	0.41
1:A:2452:ASP:CG	1:A:2453:LEU:H	2.23	0.41
1:A:2846:ALA:O	1:A:2859:GLY:HA3	2.20	0.41
1:A:2919:GLY:O	1:A:2921:PRO:HD3	2.21	0.41
1:B:709:LEU:HD11	1:B:872:ARG:CZ	2.51	0.41
1:B:957:LEU:O	1:B:1034:GLU:HB2	2.20	0.41
1:B:2205:ASP:O	1:B:2209:LEU:HB2	2.21	0.41
1:B:2300:PHE:HZ	1:B:2398:LEU:HB3	1.85	0.41
1:B:2611:VAL:HA	1:B:2612:PRO:HD3	1.86	0.41
1:B:2891:LYS:HB2	1:B:2893:ASP:OD2	2.21	0.41
1:C:336:TRP:HE3	1:C:339:GLU:OE2	2.03	0.41
1:C:417:LEU:HD21	1:C:625:LEU:HD21	2.02	0.41
1:C:580:ARG:HD3	1:C:896:ALA:HB3	2.01	0.41
1:C:1008:VAL:O	1:C:1008:VAL:CG2	2.67	0.41
1:C:2400:ASP:OD1	1:C:2400:ASP:N	2.45	0.41
1:D:107:LEU:HD13	1:D:113:VAL:HB	2.02	0.41
1:D:436:THR:HG22	1:D:460:GLY:HA3	2.03	0.41
1:D:1237:ARG:HG2	1:D:1237:ARG:HH11	1.86	0.41
1:D:1352:PHE:HA	1:D:1353:PRO:HD3	1.72	0.41
1:D:2919:GLY:O	1:D:2921:PRO:HD3	2.21	0.41
1:E:202:GLY:O	1:E:289:PRO:HD2	2.21	0.41
1:E:266:ALA:O	1:E:270:GLU:HG3	2.20	0.41
1:E:1021:LEU:HB3	1:E:1034:GLU:HG2	2.01	0.41
1:E:1095:LEU:HD23	1:E:1098:VAL:HA	2.02	0.41
1:E:1462:ALA:HB2	1:E:1468:TYR:CE1	2.56	0.41
1:E:1611:ILE:HG23	1:E:1624:THR:HA	2.02	0.41
1:E:1706:LYS:HA	1:E:1735:GLU:HG3	2.03	0.41
1:E:2013:LEU:HD23	1:E:2013:LEU:HA	1.87	0.41
1:E:2014:SER:H	1:F:2591:ARG:NH1	2.19	0.41
1:E:2891:LYS:NZ	1:E:2903:GLU:HB3	2.35	0.41
1:F:587:TRP:CZ2	1:F:694:ASP:OD2	2.74	0.41
1:F:1275:ALA:HB2	1:F:1311:PHE:CE2	2.55	0.41
1:F:1491:ASP:HB2	1:F:1495:ARG:HB2	2.02	0.41
1:F:1662:ARG:HG3	1:F:1663:LYS:N	2.34	0.41
1:F:2563:LEU:HD21	1:F:2567:PHE:HB2	2.02	0.41
1:A:488:ASN:OD1	1:A:523:SER:OG	2.34	0.41
1:A:585:HIS:HB3	1:A:694:ASP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1070:VAL:N	1:A:1152:PHE:O	2.52	0.41
1:A:1462:ALA:HB2	1:A:1468:TYR:CE1	2.56	0.41
1:A:1662:ARG:HG3	1:A:1663:LYS:N	2.34	0.41
1:A:2286:ARG:HD3	1:A:2331:SER:OG	2.20	0.41
1:A:2889:ILE:HB	1:A:2924:ILE:HG12	2.01	0.41
1:A:2961:LEU:HD22	1:A:2976:TRP:HD1	1.85	0.41
1:B:428:SER:HA	1:B:429:PRO:HD3	1.94	0.41
1:B:1008:VAL:CG1	1:B:1008:VAL:O	2.68	0.41
1:B:2770:LEU:CB	1:B:2815:GLN:HB3	2.51	0.41
1:B:2989:LEU:HD12	1:B:2989:LEU:HA	1.77	0.41
1:C:438:THR:HA	1:C:880:HIS:CE1	2.51	0.41
1:C:1275:ALA:O	1:C:1279:VAL:HG23	2.20	0.41
1:C:1687:PHE:CE1	1:C:1723:GLU:HG2	2.55	0.41
1:C:2665:THR:HA	1:C:2666:PRO:HD3	1.86	0.41
1:D:336:TRP:HE3	1:D:339:GLU:OE2	2.03	0.41
1:D:374:GLY:C	1:D:375:ILE:HG13	2.41	0.41
1:D:795:HIS:NE2	1:D:797:GLN:HB2	2.35	0.41
1:D:928:ALA:HB1	1:D:931:VAL:CB	2.50	0.41
1:D:2141:VAL:HG22	1:D:2238:PHE:CD2	2.56	0.41
1:D:2620:THR:OG1	1:D:2791:ARG:NH2	2.53	0.41
1:E:438:THR:HA	1:E:880:HIS:CE1	2.51	0.41
1:E:709:LEU:HD21	1:E:872:ARG:NE	2.34	0.41
1:E:2228:LEU:HD23	1:E:2228:LEU:HA	1.86	0.41
1:E:2483:VAL:HG13	1:E:2954:VAL:HG11	2.03	0.41
1:E:2892:HIS:HA	1:E:2942:GLN:HE22	1.85	0.41
1:F:160:GLN:HA	1:F:329:ILE:HD13	2.02	0.41
1:F:374:GLY:C	1:F:375:ILE:HG13	2.41	0.41
1:F:668:THR:HG23	1:F:683:GLY:HA3	2.02	0.41
1:F:793:ARG:HH12	1:F:2523:GLU:CD	2.24	0.41
1:F:795:HIS:NE2	1:F:797:GLN:HB2	2.35	0.41
1:F:1084:THR:CG2	1:F:1274:ALA:HA	2.48	0.41
1:F:2483:VAL:HG13	1:F:2954:VAL:HG11	2.03	0.41
1:A:954:PRO:O	1:A:965:ASN:N	2.52	0.41
1:A:2715:PRO:HD2	1:F:2737:VAL:HG11	2.02	0.41
1:B:266:ALA:O	1:B:270:GLU:HG3	2.20	0.41
1:B:618:PRO:HB3	1:B:915:PHE:HA	2.02	0.41
1:B:970:ILE:O	1:B:974:THR:HG22	2.20	0.41
1:B:1400:PRO:O	1:B:1415:GLY:HA2	2.21	0.41
1:C:1106:CYS:SG	1:C:1174:VAL:HG11	2.60	0.41
1:C:1120:GLU:HA	1:C:1125:VAL:CG2	2.50	0.41
1:C:1399:ASN:HA	1:C:1400:PRO:HD3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1400:PRO:O	1:C:1415:GLY:HA2	2.21	0.41
1:C:1460:ALA:O	1:C:1464:VAL:HG22	2.20	0.41
1:C:2297:ARG:HH22	1:C:2391:LYS:HZ3	1.68	0.41
1:C:2558:LEU:HD11	1:D:2610:ARG:HD2	2.01	0.41
1:C:2735:HIS:O	1:D:2737:VAL:HG23	2.21	0.41
1:C:2891:LYS:HB2	1:C:2893:ASP:OD2	2.21	0.41
1:D:78:GLU:HB2	1:D:176:VAL:HG21	2.02	0.41
1:D:559:SER:O	1:D:563:ILE:HG12	2.20	0.41
1:D:594:LEU:O	1:D:598:TYR:HB2	2.21	0.41
1:D:795:HIS:HE2	1:D:797:GLN:HB2	1.86	0.41
1:D:1013:THR:CG2	1:D:1014:TRP:N	2.58	0.41
1:D:1460:ALA:O	1:D:1464:VAL:HG22	2.20	0.41
1:D:1687:PHE:CE1	1:D:1723:GLU:HG2	2.55	0.41
1:D:1695:LEU:HD12	1:D:1695:LEU:HA	1.71	0.41
1:D:2098:THR:HG23	1:D:2099:GLN:N	2.36	0.41
1:D:2405:MET:O	1:D:2409:ALA:HB3	2.21	0.41
1:D:3062:HIS:H	1:D:3066:GLU:HG3	1.86	0.41
1:E:436:THR:OG1	1:E:437:PRO:HD3	2.19	0.41
1:E:1412:HIS:HD2	1:E:1413:PRO:CD	2.31	0.41
1:E:2961:LEU:HD22	1:E:2976:TRP:HD1	1.85	0.41
1:F:1275:ALA:O	1:F:1279:VAL:HG23	2.20	0.41
1:F:1703:ILE:HG22	1:F:1704:GLY:H	1.85	0.41
1:F:2891:LYS:HB2	1:F:2893:ASP:OD2	2.21	0.41
1:F:2919:GLY:O	1:F:2921:PRO:HD3	2.21	0.41
1:A:180:ALA:O	1:A:184:LEU:HG	2.21	0.41
1:A:202:GLY:O	1:A:289:PRO:HD2	2.21	0.41
1:A:479:LEU:HD21	1:A:485:ILE:HD11	2.02	0.41
1:A:594:LEU:O	1:A:598:TYR:HB2	2.21	0.41
1:A:669:LYS:O	1:A:682:ASN:HB3	2.20	0.41
1:A:1099:PRO:HB2	1:A:1295:TRP:HE1	1.86	0.41
1:A:1460:ALA:O	1:A:1464:VAL:HG22	2.20	0.41
1:A:2014:SER:H	1:B:2591:ARG:NH1	2.19	0.41
1:A:2134:TYR:HB3	1:A:2189:PHE:HD2	1.85	0.41
1:A:2354:SER:O	1:A:2358:GLU:HG3	2.20	0.41
1:A:2422:GLU:O	1:A:2422:GLU:CG	2.69	0.41
1:A:2503:LYS:HG3	1:A:2513:TYR:HB2	2.02	0.41
1:A:2558:LEU:HB2	1:F:2701:LEU:HD23	2.02	0.41
1:A:2710:LEU:HD12	1:A:2713:VAL:HG21	2.03	0.41
1:A:2770:LEU:CB	1:A:2815:GLN:HB3	2.51	0.41
1:A:2800:PHE:CZ	1:A:2812:LEU:HD13	2.55	0.41
1:B:50:GLY:O	1:B:53:SER:OG	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:ARG:HD2	1:B:674:TRP:CE3	2.56	0.41
1:B:358:ASP:OD2	1:B:361:THR:HB	2.21	0.41
1:B:374:GLY:C	1:B:375:ILE:HG13	2.41	0.41
1:B:559:SER:O	1:B:563:ILE:HG12	2.20	0.41
1:B:795:HIS:HE2	1:B:797:GLN:HB2	1.86	0.41
1:B:1017:ILE:HG12	1:B:1045:VAL:HG11	2.03	0.41
1:B:1237:ARG:HG2	1:B:1237:ARG:HH11	1.86	0.41
1:B:1460:ALA:O	1:B:1464:VAL:HG22	2.20	0.41
1:B:2098:THR:HG23	1:B:2099:GLN:N	2.36	0.41
1:B:2212:TRP:O	1:B:2229:LYS:HB3	2.21	0.41
1:B:2405:MET:O	1:B:2409:ALA:HB3	2.21	0.41
1:B:2422:GLU:O	1:B:2422:GLU:CG	2.69	0.41
1:B:2444:PRO:HB2	1:B:2988:PRO:HB3	2.01	0.41
1:B:2808:ARG:HH21	1:B:2901:PRO:HD3	1.85	0.41
1:C:133:GLN:O	1:C:137:VAL:HG23	2.21	0.41
1:C:233:LEU:HB3	1:C:251:THR:OG1	2.21	0.41
1:C:559:SER:O	1:C:563:ILE:HG12	2.20	0.41
1:C:618:PRO:HB3	1:C:915:PHE:HA	2.02	0.41
1:C:756:LEU:HD13	1:C:859:PHE:CD2	2.55	0.41
1:C:1634:ARG:NH1	1:C:1639:ALA:H	2.11	0.41
1:C:1719:LEU:O	1:C:1723:GLU:HB3	2.21	0.41
1:C:1986:LEU:HA	1:C:1989:PHE:CD2	2.56	0.41
1:C:2096:VAL:CG2	1:C:2097:ALA:N	2.82	0.41
1:C:2212:TRP:O	1:C:2229:LYS:HB3	2.21	0.41
1:C:2405:MET:O	1:C:2409:ALA:HB3	2.21	0.41
1:C:2452:ASP:CG	1:C:2453:LEU:H	2.24	0.41
1:C:2647:VAL:HA	1:C:2650:TRP:CD1	2.52	0.41
1:C:2701:LEU:HD23	1:D:2558:LEU:HB2	2.02	0.41
1:C:2715:PRO:HD2	1:D:2737:VAL:HG11	2.02	0.41
1:C:2737:VAL:HG23	1:D:2735:HIS:O	2.21	0.41
1:C:2891:LYS:NZ	1:C:2903:GLU:HB3	2.35	0.41
1:C:2919:GLY:O	1:C:2921:PRO:HD3	2.21	0.41
1:C:2961:LEU:HD22	1:C:2976:TRP:HD1	1.85	0.41
1:D:42:GLU:HA	1:D:43:PRO:HD3	1.91	0.41
1:D:278:ARG:HD2	1:D:674:TRP:CE3	2.56	0.41
1:D:587:TRP:CZ2	1:D:694:ASP:OD2	2.74	0.41
1:D:1008:VAL:O	1:D:1008:VAL:CG2	2.67	0.41
1:D:1070:VAL:N	1:D:1152:PHE:O	2.52	0.41
1:D:1353:PRO:HB2	1:D:1707:SER:HB2	2.03	0.41
1:D:2010:GLN:OE1	1:D:2013:LEU:HD11	2.21	0.41
1:D:2422:GLU:O	1:D:2422:GLU:CG	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2468:GLU:OE2	1:D:2478:ARG:NH2	2.48	0.41
1:D:2555:SER:HA	1:D:2556:PRO:HD2	1.84	0.41
1:D:2591:ARG:NH1	1:F:2014:SER:H	2.18	0.41
1:E:107:LEU:HD13	1:E:113:VAL:HB	2.02	0.41
1:E:273:ARG:HD2	1:E:282:VAL:CG1	2.51	0.41
1:E:278:ARG:HD2	1:E:674:TRP:CE3	2.56	0.41
1:E:360:LEU:HA	1:E:363:LEU:HB3	2.02	0.41
1:E:369:ARG:HD2	1:E:369:ARG:HA	1.85	0.41
1:E:585:HIS:HB3	1:E:694:ASP:HB2	2.03	0.41
1:E:594:LEU:O	1:E:598:TYR:HB2	2.21	0.41
1:E:709:LEU:HD11	1:E:872:ARG:CZ	2.51	0.41
1:E:1099:PRO:HB2	1:E:1295:TRP:HE1	1.86	0.41
1:E:2286:ARG:HD3	1:E:2331:SER:OG	2.20	0.41
1:E:2300:PHE:HZ	1:E:2398:LEU:HB3	1.85	0.41
1:E:2492:VAL:HG12	1:E:2526:ILE:HG22	2.03	0.41
1:E:2674:HIS:HA	1:E:2675:PRO:HD2	1.88	0.41
1:E:2710:LEU:HD12	1:E:2713:VAL:HG21	2.03	0.41
1:F:594:LEU:O	1:F:598:TYR:HB2	2.21	0.41
1:F:669:LYS:O	1:F:682:ASN:HB3	2.20	0.41
1:F:1095:LEU:HD23	1:F:1098:VAL:HA	2.02	0.41
1:F:1237:ARG:HH11	1:F:1237:ARG:HG2	1.86	0.41
1:F:1706:LYS:HA	1:F:1735:GLU:HG3	2.03	0.41
1:F:2141:VAL:HG22	1:F:2238:PHE:HD2	1.85	0.41
1:F:2205:ASP:O	1:F:2209:LEU:HB2	2.21	0.41
1:F:2294:SER:HB3	1:F:2310:LYS:HB2	2.02	0.41
1:F:2405:MET:O	1:F:2409:ALA:HB3	2.21	0.41
1:F:2611:VAL:HA	1:F:2612:PRO:HD3	1.86	0.41
1:F:2961:LEU:HD22	1:F:2976:TRP:HD1	1.85	0.41
1:F:3057:ASP:OD1	1:F:3057:ASP:N	2.54	0.41
1:A:436:THR:HG22	1:A:460:GLY:HA3	2.03	0.41
1:A:544:ILE:O	1:A:546:HIS:N	2.41	0.41
1:A:1087:PHE:CD1	1:B:198:ILE:HG23	2.56	0.41
1:A:1400:PRO:O	1:A:1415:GLY:HA2	2.21	0.41
1:A:2892:HIS:HA	1:A:2942:GLN:HE22	1.85	0.41
1:A:2989:LEU:HD12	1:A:2989:LEU:HA	1.77	0.41
1:B:2672:TRP:CZ3	1:B:2830:LYS:HG2	2.56	0.41
1:B:2889:ILE:HB	1:B:2924:ILE:HG12	2.01	0.41
1:C:594:LEU:O	1:C:598:TYR:HB2	2.21	0.41
1:C:1095:LEU:HD23	1:C:1098:VAL:HA	2.03	0.41
1:C:2618:SER:HB3	1:C:2786:ASP:OD1	2.21	0.41
1:C:3057:ASP:N	1:C:3057:ASP:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:ALA:O	1:D:184:LEU:HG	2.21	0.41
1:D:198:ILE:HG23	1:F:1087:PHE:CD1	2.56	0.41
1:D:1087:PHE:CD1	1:E:198:ILE:HG23	2.56	0.41
1:D:1619:VAL:HA	1:D:1620:PRO:HD2	1.81	0.41
1:D:1656:LYS:HE2	1:D:1660:LEU:HD21	2.03	0.41
1:D:2492:VAL:HG12	1:D:2526:ILE:HG22	2.03	0.41
1:E:587:TRP:CZ2	1:E:694:ASP:OD2	2.74	0.41
1:E:1237:ARG:HH11	1:E:1237:ARG:HG2	1.86	0.41
1:E:2010:GLN:OE1	1:E:2013:LEU:HD11	2.21	0.41
1:E:2672:TRP:CZ3	1:E:2830:LYS:HG2	2.56	0.41
1:E:2889:ILE:HD12	1:E:2993:LEU:HD23	2.03	0.41
1:F:50:GLY:O	1:F:53:SER:OG	2.36	0.41
1:F:2141:VAL:HG22	1:F:2238:PHE:CD2	2.56	0.41
1:F:2286:ARG:HD3	1:F:2331:SER:OG	2.20	0.41
1:F:2618:SER:HB3	1:F:2786:ASP:OD1	2.21	0.41
1:A:360:LEU:HA	1:A:363:LEU:HB3	2.02	0.40
1:A:709:LEU:HD11	1:A:872:ARG:CZ	2.51	0.40
1:A:793:ARG:HH12	1:A:2523:GLU:CD	2.24	0.40
1:A:2557:LEU:HD23	1:A:2558:LEU:N	2.37	0.40
1:A:2889:ILE:HD12	1:A:2993:LEU:HD23	2.03	0.40
1:B:273:ARG:HD2	1:B:282:VAL:CG1	2.51	0.40
1:B:488:ASN:OD1	1:B:523:SER:OG	2.34	0.40
1:B:668:THR:HG23	1:B:683:GLY:HA3	2.02	0.40
1:B:928:ALA:HB1	1:B:931:VAL:CB	2.50	0.40
1:B:1099:PRO:HB2	1:B:1295:TRP:HE1	1.86	0.40
1:B:2674:HIS:NE2	1:E:2865:ARG:HD2	2.37	0.40
1:B:3062:HIS:H	1:B:3066:GLU:HG3	1.86	0.40
1:C:1491:ASP:HB2	1:C:1495:ARG:HB2	2.02	0.40
1:C:1504:ARG:HA	1:C:1505:PRO:HD2	1.93	0.40
1:C:1533:VAL:N	1:C:1543:ALA:O	2.52	0.40
1:C:2098:THR:HG23	1:C:2099:GLN:N	2.36	0.40
1:C:2889:ILE:HD12	1:C:2993:LEU:HD23	2.03	0.40
1:C:2978:ARG:HG3	1:C:2979:GLU:HG3	2.03	0.40
1:D:369:ARG:HD2	1:D:369:ARG:HA	1.85	0.40
1:D:1400:PRO:O	1:D:1415:GLY:HA2	2.21	0.40
1:D:1637:VAL:HA	1:D:1638:PRO:HD2	1.91	0.40
1:D:1719:LEU:O	1:D:1723:GLU:HB3	2.21	0.40
1:D:2483:VAL:HG13	1:D:2954:VAL:HG11	2.03	0.40
1:E:160:GLN:HA	1:E:329:ILE:HD13	2.02	0.40
1:E:278:ARG:HD2	1:E:674:TRP:HE3	1.87	0.40
1:E:417:LEU:HD21	1:E:625:LEU:HD21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:602:ARG:NH2	1:E:641:ASP:OD1	2.28	0.40
1:E:756:LEU:HD13	1:E:859:PHE:CD2	2.55	0.40
1:E:795:HIS:HE2	1:E:797:GLN:HB2	1.86	0.40
1:E:1271:LEU:HB3	1:E:1337:MET:SD	2.61	0.40
1:E:2978:ARG:HG3	1:E:2979:GLU:HG3	2.03	0.40
1:F:436:THR:HG22	1:F:460:GLY:HA3	2.03	0.40
1:F:709:LEU:HD11	1:F:872:ARG:CZ	2.51	0.40
1:F:1017:ILE:HG12	1:F:1045:VAL:HG11	2.03	0.40
1:F:1099:PRO:HB2	1:F:1295:TRP:HE1	1.86	0.40
1:F:1533:VAL:N	1:F:1543:ALA:O	2.52	0.40
1:F:2672:TRP:CZ3	1:F:2830:LYS:HG2	2.56	0.40
1:F:2892:HIS:HA	1:F:2942:GLN:HE22	1.85	0.40
1:F:3062:HIS:H	1:F:3066:GLU:CG	2.35	0.40
1:A:133:GLN:O	1:A:137:VAL:HG23	2.21	0.40
1:A:163:LEU:HD21	1:A:181:LEU:HB3	2.04	0.40
1:A:957:LEU:O	1:A:1034:GLU:HB2	2.20	0.40
1:A:1228:VAL:HB	1:A:1311:PHE:HB2	2.02	0.40
1:A:1491:ASP:HB2	1:A:1495:ARG:HB2	2.02	0.40
1:A:1702:GLU:OE1	1:A:1711:VAL:HG22	2.22	0.40
1:A:2212:TRP:O	1:A:2229:LYS:HB3	2.21	0.40
1:A:2228:LEU:HD23	1:A:2228:LEU:HA	1.86	0.40
1:A:2346:MET:O	1:A:2349:ASN:N	2.55	0.40
1:A:2405:MET:O	1:A:2409:ALA:HB3	2.21	0.40
1:B:793:ARG:HH12	1:B:2523:GLU:CD	2.24	0.40
1:B:1551:LEU:HD13	1:B:1551:LEU:HA	1.79	0.40
1:B:2134:TYR:HB3	1:B:2189:PHE:HD2	1.85	0.40
1:B:2346:MET:O	1:B:2349:ASN:N	2.55	0.40
1:B:2503:LYS:HG3	1:B:2513:TYR:HB2	2.02	0.40
1:B:2735:HIS:O	1:E:2737:VAL:HG23	2.21	0.40
1:B:2737:VAL:HG11	1:E:2715:PRO:HD2	2.02	0.40
1:B:2836:LEU:HD23	1:B:2836:LEU:HA	1.87	0.40
1:C:273:ARG:HD2	1:C:282:VAL:CG1	2.51	0.40
1:C:793:ARG:HH12	1:C:2523:GLU:CD	2.24	0.40
1:C:1353:PRO:HB2	1:C:1707:SER:HB2	2.04	0.40
1:C:2141:VAL:HG22	1:C:2238:PHE:CD2	2.56	0.40
1:C:2346:MET:O	1:C:2349:ASN:N	2.55	0.40
1:D:336:TRP:HE1	1:D:364:THR:HG22	1.86	0.40
1:D:709:LEU:HD11	1:D:872:ARG:CZ	2.51	0.40
1:D:2205:ASP:O	1:D:2209:LEU:HB2	2.21	0.40
1:D:2574:GLU:HG3	1:D:2599:TRP:CE2	2.57	0.40
1:D:2961:LEU:HD13	1:D:2976:TRP:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1500:LEU:HD23	1:E:1574:VAL:HG21	2.02	0.40
1:E:1533:VAL:N	1:E:1543:ALA:O	2.52	0.40
1:E:1606:ASP:HA	1:E:1607:PRO:HD3	1.95	0.40
1:E:2141:VAL:HG22	1:E:2238:PHE:CD2	2.56	0.40
1:E:2574:GLU:HG3	1:E:2599:TRP:CE2	2.56	0.40
1:F:417:LEU:HD21	1:F:625:LEU:HD21	2.02	0.40
1:F:438:THR:HA	1:F:880:HIS:CE1	2.51	0.40
1:F:1400:PRO:O	1:F:1415:GLY:HA2	2.21	0.40
1:F:1616:PRO:HG2	1:F:1619:VAL:HB	2.04	0.40
1:F:2346:MET:O	1:F:2349:ASN:N	2.55	0.40
1:A:278:ARG:HD2	1:A:674:TRP:CE3	2.56	0.40
1:A:794:LEU:HD12	1:A:830:TYR:HB3	2.04	0.40
1:A:1017:ILE:HG12	1:A:1045:VAL:HG11	2.03	0.40
1:A:1237:ARG:HH11	1:A:1237:ARG:HG2	1.86	0.40
1:A:1986:LEU:HA	1:A:1989:PHE:CD2	2.56	0.40
1:A:2618:SER:HB3	1:A:2786:ASP:OD1	2.21	0.40
1:A:2891:LYS:HB2	1:A:2893:ASP:OD2	2.21	0.40
1:A:2978:ARG:HG3	1:A:2979:GLU:HG3	2.03	0.40
1:B:1271:LEU:HB3	1:B:1337:MET:SD	2.62	0.40
1:B:2141:VAL:HG22	1:B:2238:PHE:CD2	2.56	0.40
1:B:2530:TYR:O	1:B:2533:ALA:N	2.52	0.40
1:B:2710:LEU:HD12	1:B:2713:VAL:HG21	2.03	0.40
1:B:2889:ILE:HD12	1:B:2993:LEU:HD23	2.03	0.40
1:B:2961:LEU:HD13	1:B:2976:TRP:CD1	2.57	0.40
1:C:278:ARG:HD2	1:C:674:TRP:HE3	1.87	0.40
1:C:1133:VAL:N	1:C:1193:ALA:O	2.48	0.40
1:C:1629:PHE:O	1:C:1633:ILE:HG13	2.22	0.40
1:C:2286:ARG:HD3	1:C:2331:SER:OG	2.20	0.40
1:C:2700:LEU:HD22	1:D:2697:HIS:CD2	2.43	0.40
1:C:2889:ILE:HG13	1:C:2922:LEU:HD13	2.02	0.40
1:C:3062:HIS:H	1:C:3066:GLU:HG3	1.86	0.40
1:D:618:PRO:HB3	1:D:915:PHE:HA	2.02	0.40
1:D:745:THR:HG22	1:D:747:LEU:N	2.37	0.40
1:D:2014:SER:H	1:E:2591:ARG:NH1	2.19	0.40
1:D:2753:LYS:HD3	1:D:2753:LYS:HA	1.83	0.40
1:E:133:GLN:O	1:E:137:VAL:HG23	2.21	0.40
1:E:163:LEU:HD21	1:E:181:LEU:HB3	2.04	0.40
1:E:954:PRO:O	1:E:965:ASN:N	2.52	0.40
1:E:1604:ASP:N	1:E:1604:ASP:OD1	2.55	0.40
1:F:336:TRP:HE1	1:F:364:THR:HG22	1.86	0.40
1:F:358:ASP:OD2	1:F:361:THR:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:381:ARG:O	1:F:385:ARG:HG3	2.22	0.40
1:F:618:PRO:HB3	1:F:915:PHE:HA	2.02	0.40
1:F:1629:PHE:O	1:F:1633:ILE:HG13	2.22	0.40
1:F:2212:TRP:O	1:F:2229:LYS:HB3	2.21	0.40
1:A:381:ARG:O	1:A:385:ARG:HG3	2.22	0.40
1:A:587:TRP:CZ2	1:A:694:ASP:OD2	2.74	0.40
1:A:2495:LEU:HD23	1:A:2495:LEU:HA	1.89	0.40
1:A:2737:VAL:HG23	1:F:2735:HIS:O	2.21	0.40
1:A:3057:ASP:OD1	1:A:3057:ASP:N	2.54	0.40
1:B:81:LEU:HD23	1:B:81:LEU:HA	1.88	0.40
1:B:180:ALA:O	1:B:184:LEU:HG	2.21	0.40
1:B:1087:PHE:CD1	1:C:198:ILE:HG23	2.56	0.40
1:B:1095:LEU:HD23	1:B:1098:VAL:HA	2.02	0.40
1:B:1095:LEU:HD13	1:B:1289:PRO:CB	2.52	0.40
1:B:1598:GLU:HG2	1:B:1666:ILE:HG21	2.04	0.40
1:B:1604:ASP:N	1:B:1604:ASP:OD1	2.55	0.40
1:B:1656:LYS:HE2	1:B:1660:LEU:HD21	2.03	0.40
1:B:1719:LEU:O	1:B:1723:GLU:HB3	2.21	0.40
1:B:2492:VAL:HG12	1:B:2526:ILE:HG22	2.03	0.40
1:B:2737:VAL:HG23	1:E:2735:HIS:O	2.21	0.40
1:C:1462:ALA:HB2	1:C:1468:TYR:CE1	2.56	0.40
1:C:1551:LEU:HD13	1:C:1551:LEU:HA	1.80	0.40
1:C:2251:GLU:H	1:C:2251:GLU:HG3	1.71	0.40
1:C:2483:VAL:HG13	1:C:2954:VAL:HG11	2.03	0.40
1:D:273:ARG:HD2	1:D:282:VAL:CG1	2.51	0.40
1:D:408:VAL:HG23	1:D:418:GLU:HB2	2.04	0.40
1:D:793:ARG:HH12	1:D:2523:GLU:CD	2.24	0.40
1:D:1616:PRO:HG2	1:D:1619:VAL:HB	2.04	0.40
1:D:2672:TRP:CZ3	1:D:2830:LYS:HG2	2.56	0.40
1:D:2697:HIS:HE1	1:D:2773:GLU:OE2	2.05	0.40
1:E:358:ASP:OD2	1:E:361:THR:HB	2.21	0.40
1:E:2503:LYS:HE2	1:E:2514:ASP:O	2.22	0.40
1:F:133:GLN:O	1:F:137:VAL:HG23	2.21	0.40
1:F:180:ALA:O	1:F:184:LEU:HG	2.21	0.40
1:F:541:GLU:HG3	1:F:542:VAL:N	2.37	0.40
1:F:745:THR:HG22	1:F:747:LEU:N	2.37	0.40
1:F:795:HIS:HE2	1:F:797:GLN:HB2	1.86	0.40
1:F:1008:VAL:CG2	1:F:1008:VAL:O	2.67	0.40
1:F:1141:LEU:HD12	1:F:1293:ILE:HA	2.04	0.40
1:F:1656:LYS:HE2	1:F:1660:LEU:HD21	2.04	0.40
1:F:2058:ASP:OD1	1:F:2058:ASP:N	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2503:LYS:HG3	1:F:2513:TYR:HB2	2.02	0.40
1:F:2555:SER:HA	1:F:2556:PRO:HD2	1.85	0.40
1:F:2770:LEU:CB	1:F:2815:GLN:HB3	2.51	0.40
1:A:256:SER:O	1:A:259:GLU:HB3	2.22	0.40
1:A:1141:LEU:HD12	1:A:1293:ILE:HA	2.04	0.40
1:A:1291:LYS:HZ2	1:A:1346:PRO:N	2.20	0.40
1:A:1360:LYS:HD2	1:A:1398:ASP:HA	2.04	0.40
1:A:1598:GLU:HG2	1:A:1666:ILE:HG21	2.04	0.40
1:A:1672:GLN:HE21	1:A:1672:GLN:HB3	1.58	0.40
1:A:2205:ASP:O	1:A:2209:LEU:HB2	2.21	0.40
1:A:2574:GLU:HG3	1:A:2599:TRP:CE2	2.57	0.40
1:A:2645:ASP:OD2	1:A:2691:SER:HB2	2.22	0.40
1:A:2865:ARG:HD2	1:F:2674:HIS:NE2	2.37	0.40
1:B:202:GLY:O	1:B:289:PRO:HD2	2.21	0.40
1:B:233:LEU:HB3	1:B:251:THR:OG1	2.21	0.40
1:B:436:THR:HG22	1:B:460:GLY:HA3	2.03	0.40
1:B:1702:GLU:OE1	1:B:1711:VAL:HG22	2.22	0.40
1:B:2697:HIS:HE1	1:B:2773:GLU:OE2	2.05	0.40
1:B:2865:ARG:HD2	1:E:2674:HIS:NE2	2.37	0.40
1:C:480:GLU:OE1	1:C:483:ARG:NH2	2.55	0.40
1:C:669:LYS:O	1:C:682:ASN:HB3	2.20	0.40
1:C:2010:GLN:OE1	1:C:2013:LEU:HD11	2.21	0.40
1:C:2468:GLU:OE2	1:C:2478:ARG:NH2	2.48	0.40
1:C:2672:TRP:CZ3	1:C:2830:LYS:HG2	2.56	0.40
1:D:203:ASP:OD2	1:F:1087:PHE:HZ	2.05	0.40
1:D:1099:PRO:HB2	1:D:1295:TRP:HE1	1.86	0.40
1:D:1381:ASP:OD1	1:D:1391:SER:OG	2.22	0.40
1:D:1462:ALA:HB2	1:D:1468:TYR:CE1	2.56	0.40
1:D:1535:PHE:O	1:D:1679:TRP:N	2.48	0.40
1:E:1400:PRO:O	1:E:1415:GLY:HA2	2.21	0.40
1:E:2098:THR:HG23	1:E:2099:GLN:N	2.36	0.40
1:E:2557:LEU:HD23	1:E:2558:LEU:N	2.37	0.40
1:E:2647:VAL:HA	1:E:2650:TRP:CD1	2.53	0.40
1:F:360:LEU:HA	1:F:363:LEU:HB3	2.02	0.40
1:F:1271:LEU:HB3	1:F:1337:MET:SD	2.62	0.40
1:F:1412:HIS:CD2	1:F:1413:PRO:HD2	2.49	0.40
1:F:2503:LYS:HE2	1:F:2514:ASP:O	2.22	0.40
1:F:2710:LEU:HD12	1:F:2713:VAL:HG21	2.03	0.40
1:F:2891:LYS:HZ1	1:F:2903:GLU:HB3	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2818/3089 (91%)	2641 (94%)	159 (6%)	18 (1%)	25	66
1	B	2818/3089 (91%)	2641 (94%)	158 (6%)	19 (1%)	22	63
1	C	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	22	63
1	D	2818/3089 (91%)	2641 (94%)	158 (6%)	19 (1%)	22	63
1	E	2818/3089 (91%)	2642 (94%)	158 (6%)	18 (1%)	25	66
1	F	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	22	63
All	All	16908/18534 (91%)	15849 (94%)	947 (6%)	112 (1%)	26	63

All (112) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	930	PRO
1	A	1148	GLU
1	A	2428	PRO
1	A	2436	PRO
1	A	2446	PRO
1	A	2448	PRO
1	B	930	PRO
1	B	1148	GLU
1	B	2428	PRO
1	B	2436	PRO
1	B	2446	PRO
1	B	2448	PRO
1	C	930	PRO
1	C	1148	GLU
1	C	2428	PRO
1	C	2436	PRO
1	C	2446	PRO
1	C	2448	PRO
1	D	930	PRO
1	D	1148	GLU

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Mol	Chain	Res	Type
1	D	2428	PRO
1	D	2436	PRO
1	D	2446	PRO
1	D	2448	PRO
1	E	930	PRO
1	E	1148	GLU
1	E	2428	PRO
1	E	2436	PRO
1	E	2446	PRO
1	E	2448	PRO
1	F	930	PRO
1	F	1148	GLU
1	F	2428	PRO
1	F	2436	PRO
1	F	2446	PRO
1	F	2448	PRO
1	A	990	PRO
1	A	1009	PRO
1	B	990	PRO
1	B	1009	PRO
1	C	990	PRO
1	C	1009	PRO
1	D	990	PRO
1	D	1009	PRO
1	E	990	PRO
1	E	1009	PRO
1	F	990	PRO
1	F	1009	PRO
1	A	1724	TYR
1	B	1724	TYR
1	C	1724	TYR
1	D	1724	TYR
1	E	1724	TYR
1	F	1724	TYR
1	A	149	ALA
1	A	1205	ASP
1	A	1652	TRP
1	A	1705	VAL
1	B	149	ALA
1	B	1205	ASP
1	B	1652	TRP
1	B	1705	VAL

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Mol	Chain	Res	Type
1	C	149	ALA
1	C	1205	ASP
1	C	1652	TRP
1	C	1705	VAL
1	D	149	ALA
1	D	1205	ASP
1	D	1652	TRP
1	D	1705	VAL
1	E	149	ALA
1	E	1205	ASP
1	E	1652	TRP
1	E	1705	VAL
1	F	149	ALA
1	F	1205	ASP
1	F	1652	TRP
1	F	1705	VAL
1	A	89	GLU
1	A	1221	PRO
1	A	2444	PRO
1	B	89	GLU
1	B	1221	PRO
1	B	2444	PRO
1	C	89	GLU
1	C	1221	PRO
1	C	2444	PRO
1	D	89	GLU
1	D	1221	PRO
1	D	2444	PRO
1	E	89	GLU
1	E	1221	PRO
1	E	2444	PRO
1	F	89	GLU
1	F	1221	PRO
1	F	2444	PRO
1	A	1068	VAL
1	A	1285	LYS
1	B	1068	VAL
1	B	1285	LYS
1	C	1068	VAL
1	C	1285	LYS
1	D	1068	VAL
1	D	1285	LYS

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Mol	Chain	Res	Type
1	E	1068	VAL
1	E	1285	LYS
1	F	1068	VAL
1	F	1285	LYS
1	B	2585	PRO
1	C	2585	PRO
1	D	2585	PRO
1	F	2585	PRO

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2094/2402 (87%)	1992 (95%)	102 (5%)	25	50
1	B	2097/2402 (87%)	1994 (95%)	103 (5%)	25	50
1	C	2094/2402 (87%)	1992 (95%)	102 (5%)	25	50
1	D	2093/2402 (87%)	1991 (95%)	102 (5%)	25	50
1	E	2095/2402 (87%)	1993 (95%)	102 (5%)	25	50
1	F	2094/2402 (87%)	1992 (95%)	102 (5%)	25	50
All	All	12567/14412 (87%)	11954 (95%)	613 (5%)	29	50

All (613) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	90	LEU
1	A	208	VAL
1	A	209	SER
1	A	232	VAL
1	A	233	LEU
1	A	248	ILE
1	A	251	THR
1	A	342	GLU
1	A	344	HIS
1	A	358	ASP

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Mol	Chain	Res	Type
1	A	361	THR
1	A	389	THR
1	A	390	VAL
1	A	400	TRP
1	A	409	LYS
1	A	424	LEU
1	A	427	ARG
1	A	439	THR
1	A	456	GLU
1	A	517	ILE
1	A	544	ILE
1	A	580	ARG
1	A	584	HIS
1	A	595	LEU
1	A	606	ASN
1	A	621	SER
1	A	638	MET
1	A	644	LEU
1	A	654	GLU
1	A	694	ASP
1	A	696	HIS
1	A	699	ASP
1	A	791	GLU
1	A	857	VAL
1	A	930	PRO
1	A	990	PRO
1	A	1009	PRO
1	A	1021	LEU
1	A	1096	THR
1	A	1105	ARG
1	A	1127	GLU
1	A	1162	THR
1	A	1206	PRO
1	A	1221	PRO
1	A	1253	ARG
1	A	1358	GLN
1	A	1421	GLN
1	A	1468	TYR
1	A	1471	GLU
1	A	1488	VAL
1	A	1508	ILE
1	A	1544	ILE

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Mol	Chain	Res	Type
1	A	1551	LEU
1	A	1564	ILE
1	A	1618	LEU
1	A	1651	THR
1	A	1662	ARG
1	A	1672	GLN
1	A	1673	PHE
1	A	1745	ASP
1	A	2059	ARG
1	A	2067	LEU
1	A	2070	LEU
1	A	2129	PRO
1	A	2192	THR
1	A	2196	VAL
1	A	2209	LEU
1	A	2294	SER
1	A	2297	ARG
1	A	2299	MET
1	A	2303	ASP
1	A	2306	TYR
1	A	2395	THR
1	A	2401	ILE
1	A	2428	PRO
1	A	2436	PRO
1	A	2438	PRO
1	A	2439	PRO
1	A	2444	PRO
1	A	2446	PRO
1	A	2448	PRO
1	A	2620	THR
1	A	2692	MET
1	A	2742	THR
1	A	2784	THR
1	A	2800	PHE
1	A	2802	ARG
1	A	2809	LEU
1	A	2827	LEU
1	A	2861	LEU
1	A	2871	THR
1	A	2879	LEU
1	A	2894	THR
1	A	2916	ARG

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Mol	Chain	Res	Type
1	A	2930	LEU
1	A	2935	LYS
1	A	2962	ASP
1	A	3001	HIS
1	A	3019	ASP
1	A	3076	SER
1	A	3077	THR
1	A	3080	ARG
1	B	90	LEU
1	B	208	VAL
1	B	209	SER
1	B	232	VAL
1	B	233	LEU
1	B	248	ILE
1	B	251	THR
1	B	342	GLU
1	B	344	HIS
1	B	358	ASP
1	B	361	THR
1	B	389	THR
1	B	390	VAL
1	B	400	TRP
1	B	409	LYS
1	B	424	LEU
1	B	427	ARG
1	B	439	THR
1	B	456	GLU
1	B	517	ILE
1	B	544	ILE
1	B	580	ARG
1	B	584	HIS
1	B	595	LEU
1	B	606	ASN
1	B	621	SER
1	B	638	MET
1	B	644	LEU
1	B	654	GLU
1	B	694	ASP
1	B	696	HIS
1	B	699	ASP
1	B	791	GLU
1	B	857	VAL

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Mol	Chain	Res	Type
1	B	930	PRO
1	B	990	PRO
1	B	1009	PRO
1	B	1021	LEU
1	B	1096	THR
1	B	1105	ARG
1	B	1127	GLU
1	B	1162	THR
1	B	1206	PRO
1	B	1221	PRO
1	B	1253	ARG
1	B	1358	GLN
1	B	1401	THR
1	B	1421	GLN
1	B	1468	TYR
1	B	1471	GLU
1	B	1488	VAL
1	B	1508	ILE
1	B	1544	ILE
1	B	1551	LEU
1	B	1564	ILE
1	B	1618	LEU
1	B	1651	THR
1	B	1662	ARG
1	B	1672	GLN
1	B	1673	PHE
1	B	1745	ASP
1	B	2059	ARG
1	B	2067	LEU
1	B	2070	LEU
1	B	2129	PRO
1	B	2192	THR
1	B	2196	VAL
1	B	2209	LEU
1	B	2294	SER
1	B	2297	ARG
1	B	2299	MET
1	B	2303	ASP
1	B	2306	TYR
1	B	2395	THR
1	B	2401	ILE
1	B	2428	PRO

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Mol	Chain	Res	Type
1	B	2436	PRO
1	B	2438	PRO
1	B	2439	PRO
1	B	2444	PRO
1	B	2446	PRO
1	B	2448	PRO
1	B	2620	THR
1	B	2692	MET
1	B	2742	THR
1	B	2784	THR
1	B	2800	PHE
1	B	2802	ARG
1	B	2809	LEU
1	B	2827	LEU
1	B	2861	LEU
1	B	2871	THR
1	B	2879	LEU
1	B	2894	THR
1	B	2916	ARG
1	B	2930	LEU
1	B	2935	LYS
1	B	2962	ASP
1	B	3001	HIS
1	B	3019	ASP
1	B	3076	SER
1	B	3077	THR
1	B	3080	ARG
1	C	90	LEU
1	C	208	VAL
1	C	209	SER
1	C	232	VAL
1	C	233	LEU
1	C	248	ILE
1	C	251	THR
1	C	342	GLU
1	C	344	HIS
1	C	358	ASP
1	C	361	THR
1	C	389	THR
1	C	390	VAL
1	C	400	TRP
1	C	409	LYS

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Mol	Chain	Res	Type
1	C	424	LEU
1	C	427	ARG
1	C	439	THR
1	C	456	GLU
1	C	517	ILE
1	C	544	ILE
1	C	580	ARG
1	C	584	HIS
1	C	595	LEU
1	C	606	ASN
1	C	621	SER
1	C	638	MET
1	C	644	LEU
1	C	654	GLU
1	C	694	ASP
1	C	696	HIS
1	C	699	ASP
1	C	791	GLU
1	C	857	VAL
1	C	930	PRO
1	C	990	PRO
1	C	1009	PRO
1	C	1021	LEU
1	C	1096	THR
1	C	1105	ARG
1	C	1127	GLU
1	C	1162	THR
1	C	1206	PRO
1	C	1221	PRO
1	C	1253	ARG
1	C	1358	GLN
1	C	1421	GLN
1	C	1468	TYR
1	C	1471	GLU
1	C	1488	VAL
1	C	1508	ILE
1	C	1544	ILE
1	C	1551	LEU
1	C	1564	ILE
1	C	1618	LEU
1	C	1651	THR
1	C	1662	ARG

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Mol	Chain	Res	Type
1	C	1672	GLN
1	C	1673	PHE
1	C	1745	ASP
1	C	2059	ARG
1	C	2067	LEU
1	C	2070	LEU
1	C	2129	PRO
1	C	2192	THR
1	C	2196	VAL
1	C	2209	LEU
1	C	2294	SER
1	C	2297	ARG
1	C	2299	MET
1	C	2303	ASP
1	C	2306	TYR
1	C	2395	THR
1	C	2401	ILE
1	C	2428	PRO
1	C	2436	PRO
1	C	2438	PRO
1	C	2439	PRO
1	C	2444	PRO
1	C	2446	PRO
1	C	2448	PRO
1	C	2620	THR
1	C	2692	MET
1	C	2742	THR
1	C	2784	THR
1	C	2800	PHE
1	C	2802	ARG
1	C	2809	LEU
1	C	2827	LEU
1	C	2861	LEU
1	C	2871	THR
1	C	2879	LEU
1	C	2894	THR
1	C	2916	ARG
1	C	2930	LEU
1	C	2935	LYS
1	C	2962	ASP
1	C	3001	HIS
1	C	3019	ASP

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Mol	Chain	Res	Type
1	C	3076	SER
1	C	3077	THR
1	C	3080	ARG
1	D	90	LEU
1	D	208	VAL
1	D	209	SER
1	D	232	VAL
1	D	233	LEU
1	D	248	ILE
1	D	251	THR
1	D	342	GLU
1	D	344	HIS
1	D	358	ASP
1	D	361	THR
1	D	389	THR
1	D	390	VAL
1	D	400	TRP
1	D	409	LYS
1	D	424	LEU
1	D	427	ARG
1	D	439	THR
1	D	456	GLU
1	D	517	ILE
1	D	544	ILE
1	D	580	ARG
1	D	584	HIS
1	D	595	LEU
1	D	606	ASN
1	D	621	SER
1	D	638	MET
1	D	644	LEU
1	D	654	GLU
1	D	694	ASP
1	D	696	HIS
1	D	699	ASP
1	D	791	GLU
1	D	857	VAL
1	D	930	PRO
1	D	990	PRO
1	D	1009	PRO
1	D	1021	LEU
1	D	1096	THR

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Mol	Chain	Res	Type
1	D	1105	ARG
1	D	1127	GLU
1	D	1162	THR
1	D	1206	PRO
1	D	1221	PRO
1	D	1253	ARG
1	D	1358	GLN
1	D	1421	GLN
1	D	1468	TYR
1	D	1471	GLU
1	D	1488	VAL
1	D	1508	ILE
1	D	1544	ILE
1	D	1551	LEU
1	D	1564	ILE
1	D	1618	LEU
1	D	1651	THR
1	D	1662	ARG
1	D	1672	GLN
1	D	1673	PHE
1	D	1745	ASP
1	D	2059	ARG
1	D	2067	LEU
1	D	2070	LEU
1	D	2129	PRO
1	D	2192	THR
1	D	2196	VAL
1	D	2209	LEU
1	D	2294	SER
1	D	2297	ARG
1	D	2299	MET
1	D	2303	ASP
1	D	2306	TYR
1	D	2395	THR
1	D	2401	ILE
1	D	2428	PRO
1	D	2436	PRO
1	D	2438	PRO
1	D	2439	PRO
1	D	2444	PRO
1	D	2446	PRO
1	D	2448	PRO

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Mol	Chain	Res	Type
1	D	2620	THR
1	D	2692	MET
1	D	2742	THR
1	D	2784	THR
1	D	2800	PHE
1	D	2802	ARG
1	D	2809	LEU
1	D	2827	LEU
1	D	2861	LEU
1	D	2871	THR
1	D	2879	LEU
1	D	2894	THR
1	D	2916	ARG
1	D	2930	LEU
1	D	2935	LYS
1	D	2962	ASP
1	D	3001	HIS
1	D	3019	ASP
1	D	3076	SER
1	D	3077	THR
1	D	3080	ARG
1	E	90	LEU
1	E	208	VAL
1	E	209	SER
1	E	232	VAL
1	E	233	LEU
1	E	248	ILE
1	E	251	THR
1	E	342	GLU
1	E	344	HIS
1	E	358	ASP
1	E	361	THR
1	E	389	THR
1	E	390	VAL
1	E	400	TRP
1	E	409	LYS
1	E	424	LEU
1	E	427	ARG
1	E	439	THR
1	E	456	GLU
1	E	517	ILE
1	E	544	ILE

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Mol	Chain	Res	Type
1	E	580	ARG
1	E	584	HIS
1	E	595	LEU
1	E	606	ASN
1	E	621	SER
1	E	638	MET
1	E	644	LEU
1	E	654	GLU
1	E	694	ASP
1	E	696	HIS
1	E	699	ASP
1	E	791	GLU
1	E	857	VAL
1	E	930	PRO
1	E	990	PRO
1	E	1009	PRO
1	E	1021	LEU
1	E	1096	THR
1	E	1105	ARG
1	E	1127	GLU
1	E	1162	THR
1	E	1206	PRO
1	E	1221	PRO
1	E	1253	ARG
1	E	1358	GLN
1	E	1421	GLN
1	E	1468	TYR
1	E	1471	GLU
1	E	1488	VAL
1	E	1508	ILE
1	E	1544	ILE
1	E	1551	LEU
1	E	1564	ILE
1	E	1618	LEU
1	E	1651	THR
1	E	1662	ARG
1	E	1672	GLN
1	E	1673	PHE
1	E	1745	ASP
1	E	2059	ARG
1	E	2067	LEU
1	E	2070	LEU

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Mol	Chain	Res	Type
1	E	2129	PRO
1	E	2192	THR
1	E	2196	VAL
1	E	2209	LEU
1	E	2294	SER
1	E	2297	ARG
1	E	2299	MET
1	E	2303	ASP
1	E	2306	TYR
1	E	2395	THR
1	E	2401	ILE
1	E	2428	PRO
1	E	2436	PRO
1	E	2438	PRO
1	E	2439	PRO
1	E	2444	PRO
1	E	2446	PRO
1	E	2448	PRO
1	E	2620	THR
1	E	2692	MET
1	E	2742	THR
1	E	2784	THR
1	E	2800	PHE
1	E	2802	ARG
1	E	2809	LEU
1	E	2827	LEU
1	E	2861	LEU
1	E	2871	THR
1	E	2879	LEU
1	E	2894	THR
1	E	2916	ARG
1	E	2930	LEU
1	E	2935	LYS
1	E	2962	ASP
1	E	3001	HIS
1	E	3019	ASP
1	E	3076	SER
1	E	3077	THR
1	E	3080	ARG
1	F	90	LEU
1	F	208	VAL
1	F	209	SER

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Mol	Chain	Res	Type
1	F	232	VAL
1	F	233	LEU
1	F	248	ILE
1	F	251	THR
1	F	342	GLU
1	F	344	HIS
1	F	358	ASP
1	F	361	THR
1	F	389	THR
1	F	390	VAL
1	F	400	TRP
1	F	409	LYS
1	F	424	LEU
1	F	427	ARG
1	F	439	THR
1	F	456	GLU
1	F	517	ILE
1	F	544	ILE
1	F	580	ARG
1	F	584	HIS
1	F	595	LEU
1	F	606	ASN
1	F	621	SER
1	F	638	MET
1	F	644	LEU
1	F	654	GLU
1	F	694	ASP
1	F	696	HIS
1	F	699	ASP
1	F	791	GLU
1	F	857	VAL
1	F	930	PRO
1	F	990	PRO
1	F	1009	PRO
1	F	1021	LEU
1	F	1096	THR
1	F	1105	ARG
1	F	1127	GLU
1	F	1162	THR
1	F	1206	PRO
1	F	1221	PRO
1	F	1253	ARG

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Mol	Chain	Res	Type
1	F	1358	GLN
1	F	1421	GLN
1	F	1468	TYR
1	F	1471	GLU
1	F	1488	VAL
1	F	1508	ILE
1	F	1544	ILE
1	F	1551	LEU
1	F	1564	ILE
1	F	1618	LEU
1	F	1651	THR
1	F	1662	ARG
1	F	1672	GLN
1	F	1673	PHE
1	F	1745	ASP
1	F	2059	ARG
1	F	2067	LEU
1	F	2070	LEU
1	F	2129	PRO
1	F	2192	THR
1	F	2196	VAL
1	F	2209	LEU
1	F	2294	SER
1	F	2297	ARG
1	F	2299	MET
1	F	2303	ASP
1	F	2306	TYR
1	F	2395	THR
1	F	2401	ILE
1	F	2428	PRO
1	F	2436	PRO
1	F	2438	PRO
1	F	2439	PRO
1	F	2444	PRO
1	F	2446	PRO
1	F	2448	PRO
1	F	2620	THR
1	F	2692	MET
1	F	2742	THR
1	F	2784	THR
1	F	2800	PHE
1	F	2802	ARG

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Mol	Chain	Res	Type
1	F	2809	LEU
1	F	2827	LEU
1	F	2861	LEU
1	F	2871	THR
1	F	2879	LEU
1	F	2894	THR
1	F	2916	ARG
1	F	2930	LEU
1	F	2935	LYS
1	F	2962	ASP
1	F	3001	HIS
1	F	3019	ASP
1	F	3076	SER
1	F	3077	THR
1	F	3080	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (140) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	386	ASN
1	A	486	GLN
1	A	540	ASN
1	A	575	HIS
1	A	585	HIS
1	A	606	ASN
1	A	1057	ASN
1	A	1134	HIS
1	A	1276	GLN
1	A	1277	HIS
1	A	1355	GLN
1	A	1534	ASN
1	A	1582	HIS
1	A	1617	ASN
1	A	1672	GLN
1	A	2288	HIS
1	A	2334	HIS
1	A	2349	ASN
1	A	2651	ASN
1	A	2815	GLN
1	A	2850	HIS
1	A	2927	GLN
1	A	2942	GLN

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Mol	Chain	Res	Type
1	A	2973	HIS
1	B	386	ASN
1	B	486	GLN
1	B	540	ASN
1	B	575	HIS
1	B	585	HIS
1	B	606	ASN
1	B	1057	ASN
1	B	1134	HIS
1	B	1276	GLN
1	B	1277	HIS
1	B	1355	GLN
1	B	1582	HIS
1	B	1617	ASN
1	B	1672	GLN
1	B	2288	HIS
1	B	2334	HIS
1	B	2349	ASN
1	B	2651	ASN
1	B	2815	GLN
1	B	2850	HIS
1	B	2927	GLN
1	B	2942	GLN
1	B	2973	HIS
1	C	386	ASN
1	C	486	GLN
1	C	540	ASN
1	C	575	HIS
1	C	585	HIS
1	C	606	ASN
1	C	1057	ASN
1	C	1134	HIS
1	C	1276	GLN
1	C	1277	HIS
1	C	1355	GLN
1	C	1582	HIS
1	C	1617	ASN
1	C	1672	GLN
1	C	2288	HIS
1	C	2334	HIS
1	C	2349	ASN
1	C	2651	ASN

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Mol	Chain	Res	Type
1	C	2815	GLN
1	C	2850	HIS
1	C	2927	GLN
1	C	2942	GLN
1	C	2973	HIS
1	D	386	ASN
1	D	486	GLN
1	D	540	ASN
1	D	575	HIS
1	D	585	HIS
1	D	1057	ASN
1	D	1134	HIS
1	D	1276	GLN
1	D	1277	HIS
1	D	1355	GLN
1	D	1582	HIS
1	D	1617	ASN
1	D	1672	GLN
1	D	2288	HIS
1	D	2296	ASN
1	D	2334	HIS
1	D	2349	ASN
1	D	2651	ASN
1	D	2815	GLN
1	D	2850	HIS
1	D	2927	GLN
1	D	2942	GLN
1	D	2973	HIS
1	E	386	ASN
1	E	486	GLN
1	E	540	ASN
1	E	575	HIS
1	E	585	HIS
1	E	606	ASN
1	E	1057	ASN
1	E	1134	HIS
1	E	1276	GLN
1	E	1277	HIS
1	E	1355	GLN
1	E	1534	ASN
1	E	1582	HIS
1	E	1617	ASN

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Mol	Chain	Res	Type
1	E	1672	GLN
1	E	2288	HIS
1	E	2334	HIS
1	E	2349	ASN
1	E	2651	ASN
1	E	2815	GLN
1	E	2850	HIS
1	E	2927	GLN
1	E	2942	GLN
1	E	2973	HIS
1	F	386	ASN
1	F	486	GLN
1	F	540	ASN
1	F	575	HIS
1	F	585	HIS
1	F	682	ASN
1	F	1057	ASN
1	F	1134	HIS
1	F	1276	GLN
1	F	1277	HIS
1	F	1355	GLN
1	F	1582	HIS
1	F	1617	ASN
1	F	1672	GLN
1	F	2288	HIS
1	F	2334	HIS
1	F	2349	ASN
1	F	2651	ASN
1	F	2815	GLN
1	F	2850	HIS
1	F	2927	GLN
1	F	2942	GLN
1	F	2973	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	FMN	A	4000	-	33,33,33	1.06	2 (6%)	48,50,50	1.26	8 (16%)
2	FMN	E	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	7 (14%)
2	FMN	F	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.25	7 (14%)
2	FMN	C	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	8 (16%)
2	FMN	D	4000	-	33,33,33	1.08	2 (6%)	48,50,50	1.26	8 (16%)
2	FMN	B	4000	-	33,33,33	1.08	2 (6%)	48,50,50	1.26	8 (16%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	FMN	A	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	E	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	F	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	C	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	D	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	B	4000	-	-	5/18/18/18	0/3/3/3

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	4000	FMN	C4A-N5	4.14	1.38	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	4000	FMN	C4A-N5	4.12	1.38	1.30
2	E	4000	FMN	C4A-N5	4.10	1.38	1.30
2	A	4000	FMN	C4A-N5	4.09	1.38	1.30
2	D	4000	FMN	C4A-N5	4.08	1.38	1.30
2	C	4000	FMN	C4A-N5	4.08	1.38	1.30
2	C	4000	FMN	C10-N1	2.31	1.37	1.33
2	E	4000	FMN	C10-N1	2.26	1.37	1.33
2	D	4000	FMN	C10-N1	2.25	1.37	1.33
2	B	4000	FMN	C10-N1	2.22	1.37	1.33
2	F	4000	FMN	C10-N1	2.21	1.37	1.33
2	A	4000	FMN	C10-N1	2.18	1.37	1.33

All (46) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	4000	FMN	C4-N3-C2	-3.02	120.06	125.64
2	C	4000	FMN	C4-N3-C2	-2.99	120.12	125.64
2	E	4000	FMN	C4-N3-C2	-2.98	120.13	125.64
2	D	4000	FMN	C4-N3-C2	-2.98	120.13	125.64
2	B	4000	FMN	C4-N3-C2	-2.97	120.15	125.64
2	E	4000	FMN	C4A-C10-N10	2.97	120.82	116.48
2	A	4000	FMN	C4-N3-C2	-2.97	120.16	125.64
2	C	4000	FMN	C4A-C10-N10	2.94	120.78	116.48
2	D	4000	FMN	C4A-C10-N10	2.92	120.75	116.48
2	A	4000	FMN	C4A-C10-N10	2.92	120.74	116.48
2	F	4000	FMN	C4A-C10-N10	2.89	120.71	116.48
2	B	4000	FMN	C4A-C10-N10	2.89	120.70	116.48
2	B	4000	FMN	C4A-C4-N3	2.61	119.82	113.19
2	C	4000	FMN	C4A-C4-N3	2.61	119.81	113.19
2	D	4000	FMN	C4A-C4-N3	2.61	119.81	113.19
2	F	4000	FMN	C4A-C4-N3	2.61	119.81	113.19
2	E	4000	FMN	C4A-C4-N3	2.60	119.80	113.19
2	E	4000	FMN	C10-C4A-N5	-2.60	119.34	124.86
2	A	4000	FMN	C4A-C4-N3	2.60	119.79	113.19
2	D	4000	FMN	C10-C4A-N5	-2.58	119.38	124.86
2	A	4000	FMN	C10-C4A-N5	-2.57	119.41	124.86
2	B	4000	FMN	C10-C4A-N5	-2.55	119.44	124.86
2	C	4000	FMN	C10-C4A-N5	-2.55	119.45	124.86
2	F	4000	FMN	C10-C4A-N5	-2.54	119.47	124.86
2	D	4000	FMN	O4-C4-C4A	-2.44	120.13	126.60
2	E	4000	FMN	O4-C4-C4A	-2.42	120.19	126.60
2	B	4000	FMN	O4-C4-C4A	-2.42	120.19	126.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	4000	FMN	O4-C4-C4A	-2.40	120.22	126.60
2	C	4000	FMN	O4-C4-C4A	-2.40	120.23	126.60
2	A	4000	FMN	O4-C4-C4A	-2.39	120.26	126.60
2	E	4000	FMN	C4-C4A-N5	2.28	121.48	118.23
2	D	4000	FMN	C4-C4A-N5	2.28	121.47	118.23
2	B	4000	FMN	C4-C4A-N5	2.26	121.45	118.23
2	A	4000	FMN	C4-C4A-N5	2.25	121.44	118.23
2	D	4000	FMN	C9A-C5A-N5	-2.25	119.99	122.43
2	C	4000	FMN	C9A-C5A-N5	-2.23	120.00	122.43
2	C	4000	FMN	C4-C4A-N5	2.23	121.41	118.23
2	F	4000	FMN	C4-C4A-N5	2.21	121.37	118.23
2	F	4000	FMN	C9A-C5A-N5	-2.20	120.04	122.43
2	A	4000	FMN	C9A-C5A-N5	-2.16	120.08	122.43
2	B	4000	FMN	C9A-C5A-N5	-2.16	120.08	122.43
2	E	4000	FMN	C9A-C5A-N5	-2.13	120.12	122.43
2	D	4000	FMN	O2-C2-N1	-2.03	118.47	121.83
2	C	4000	FMN	O2-C2-N1	-2.02	118.47	121.83
2	A	4000	FMN	O2-C2-N1	-2.01	118.50	121.83
2	B	4000	FMN	O2-C2-N1	-2.00	118.51	121.83

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	4000	FMN	O3'-C3'-C4'-C5'
2	B	4000	FMN	O3'-C3'-C4'-C5'
2	C	4000	FMN	O3'-C3'-C4'-C5'
2	D	4000	FMN	O3'-C3'-C4'-C5'
2	E	4000	FMN	O3'-C3'-C4'-C5'
2	F	4000	FMN	O3'-C3'-C4'-C5'
2	A	4000	FMN	C2'-C3'-C4'-C5'
2	B	4000	FMN	C2'-C3'-C4'-C5'
2	C	4000	FMN	C2'-C3'-C4'-C5'
2	D	4000	FMN	C2'-C3'-C4'-C5'
2	E	4000	FMN	C2'-C3'-C4'-C5'
2	F	4000	FMN	C2'-C3'-C4'-C5'
2	A	4000	FMN	C2'-C3'-C4'-O4'
2	B	4000	FMN	C2'-C3'-C4'-O4'
2	C	4000	FMN	C2'-C3'-C4'-O4'
2	D	4000	FMN	C2'-C3'-C4'-O4'
2	E	4000	FMN	C2'-C3'-C4'-O4'
2	F	4000	FMN	C2'-C3'-C4'-O4'

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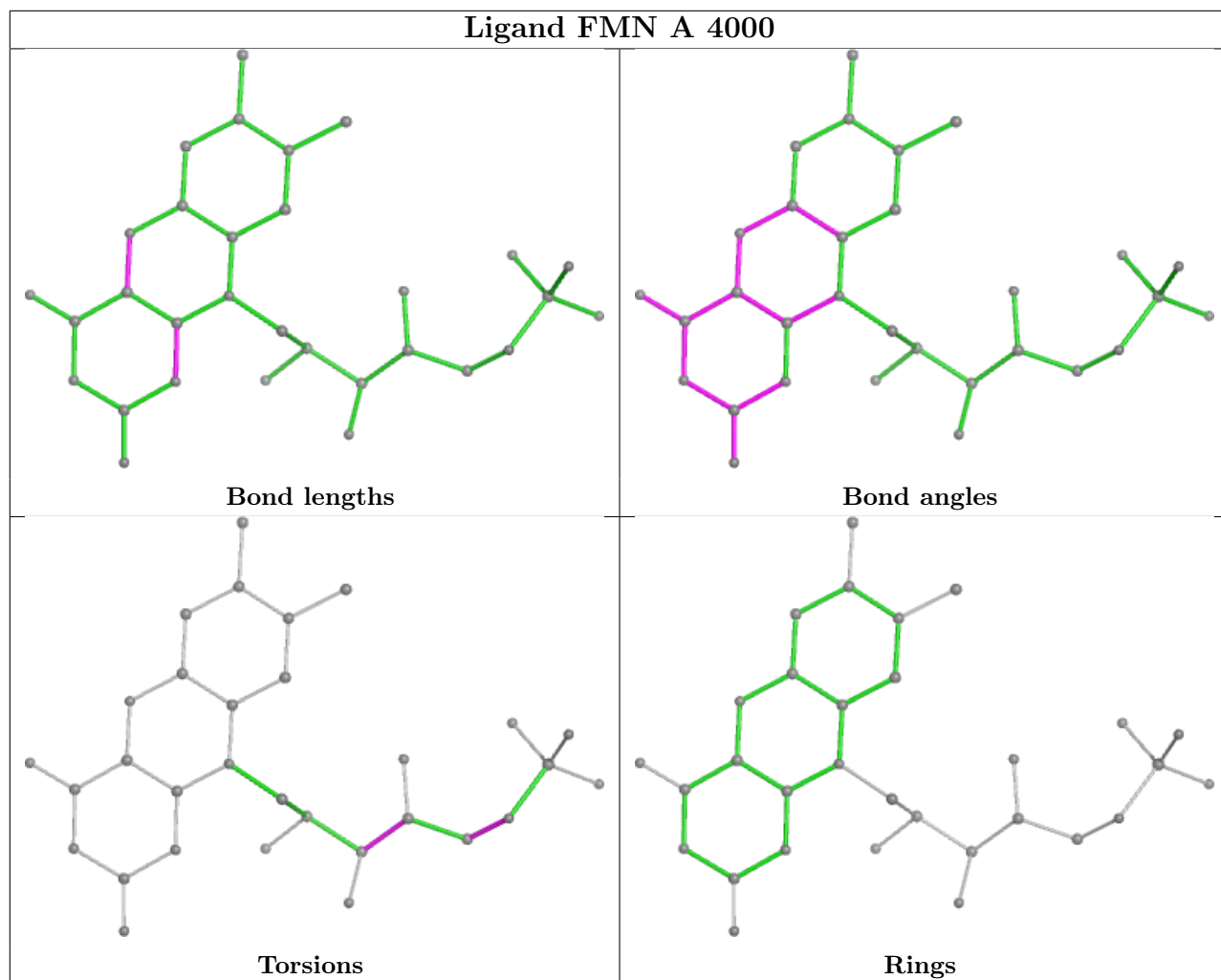
Mol	Chain	Res	Type	Atoms
2	C	4000	FMN	O3'-C3'-C4'-O4'
2	A	4000	FMN	C4'-C5'-O5'-P
2	B	4000	FMN	C4'-C5'-O5'-P
2	C	4000	FMN	C4'-C5'-O5'-P
2	D	4000	FMN	C4'-C5'-O5'-P
2	E	4000	FMN	C4'-C5'-O5'-P
2	F	4000	FMN	C4'-C5'-O5'-P
2	A	4000	FMN	O3'-C3'-C4'-O4'
2	B	4000	FMN	O3'-C3'-C4'-O4'
2	D	4000	FMN	O3'-C3'-C4'-O4'
2	E	4000	FMN	O3'-C3'-C4'-O4'
2	F	4000	FMN	O3'-C3'-C4'-O4'

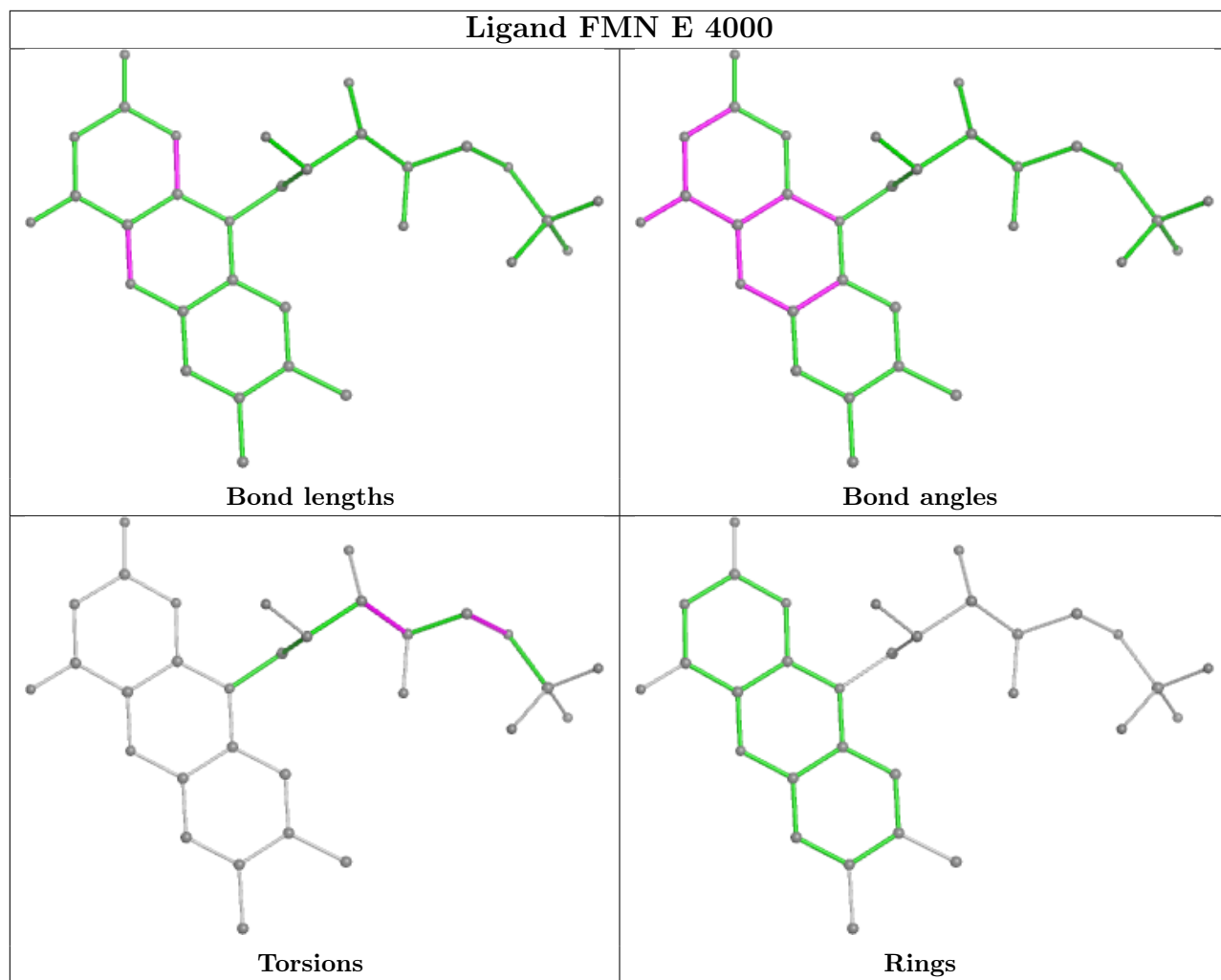
There are no ring outliers.

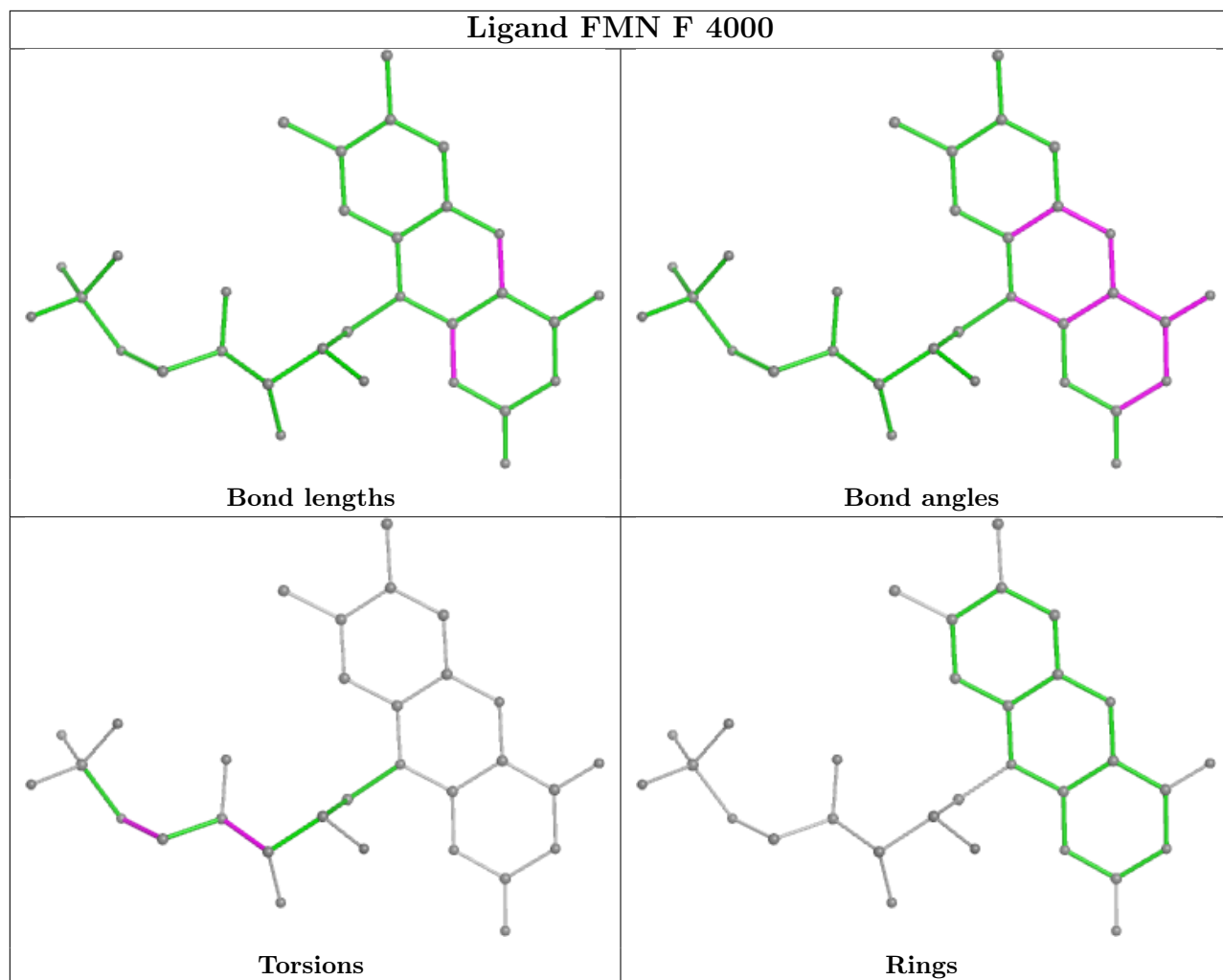
6 monomers are involved in 26 short contacts:

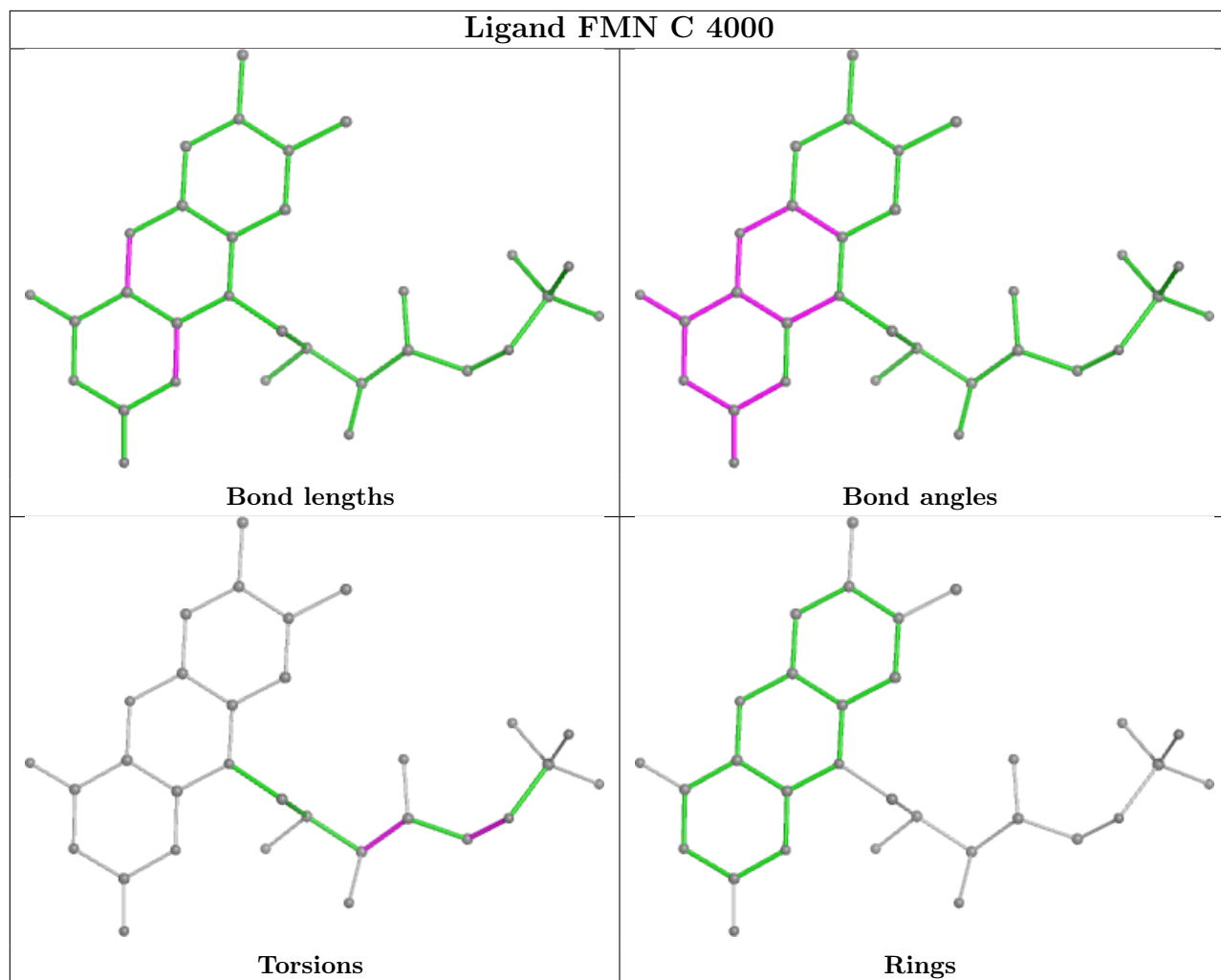
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	4000	FMN	4	0
2	E	4000	FMN	4	0
2	F	4000	FMN	5	0
2	C	4000	FMN	4	0
2	D	4000	FMN	4	0
2	B	4000	FMN	5	0

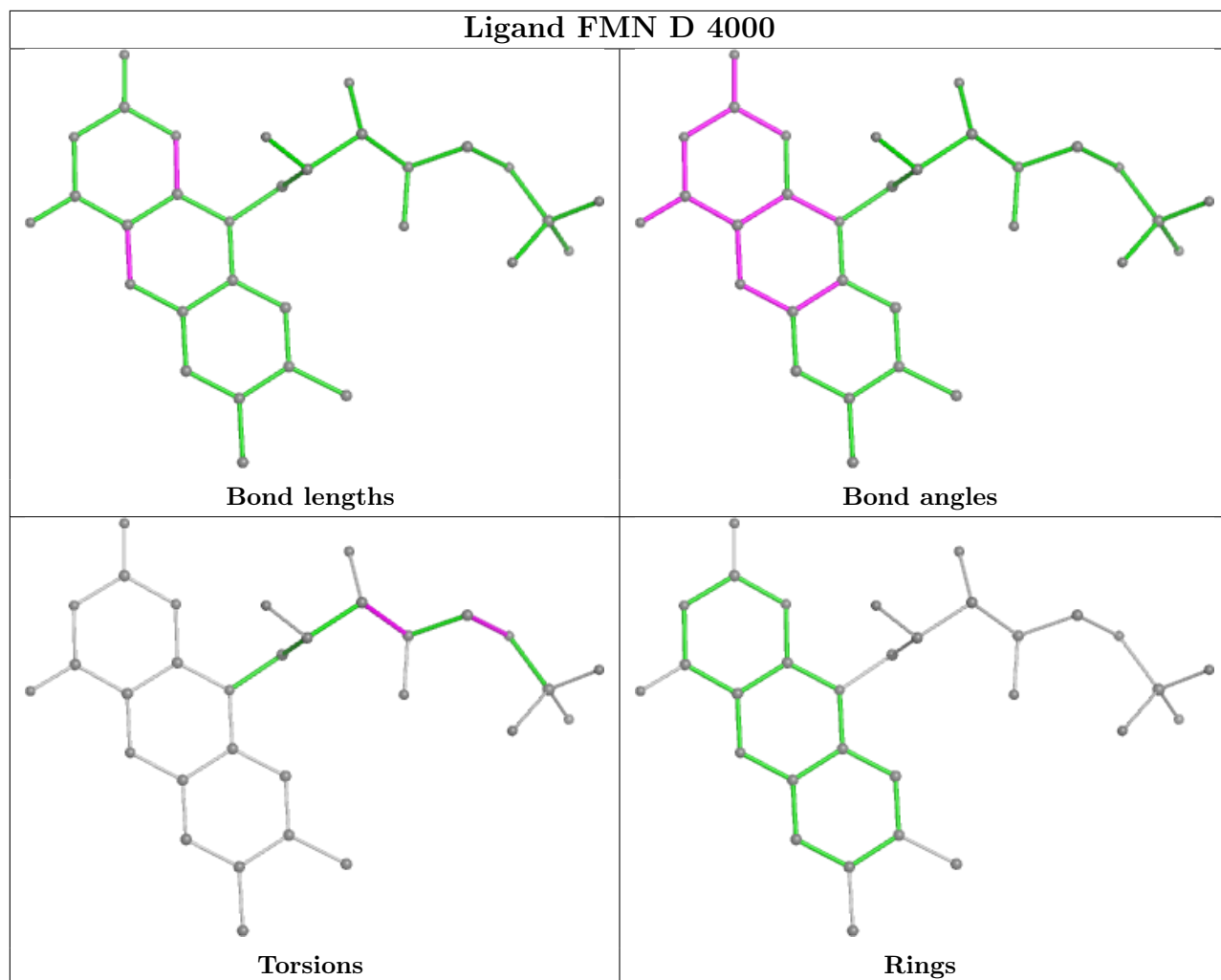
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

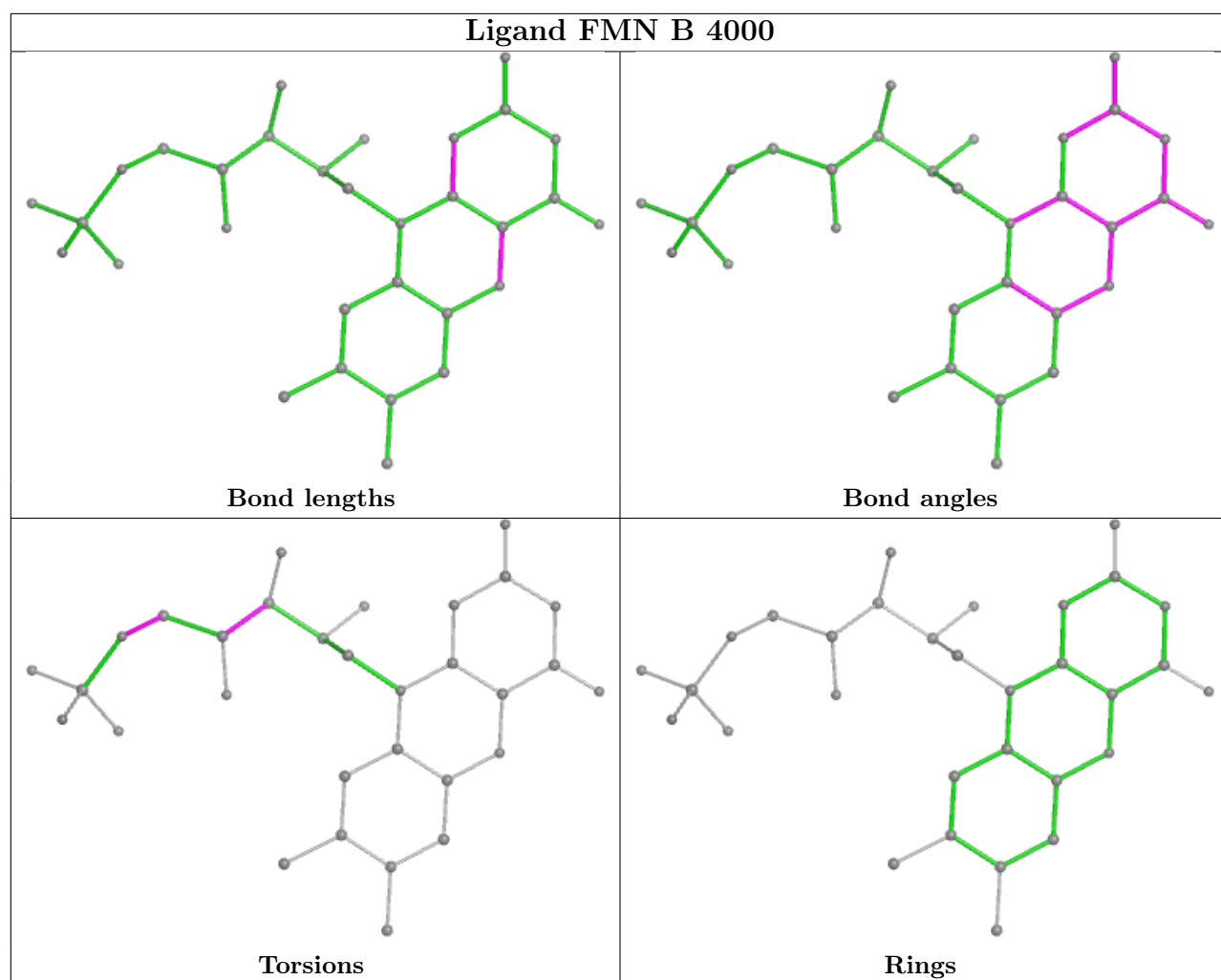












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

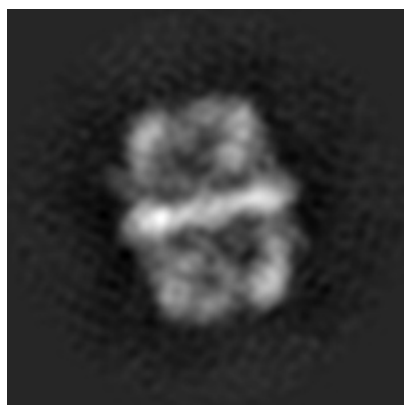
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2358. These allow visual inspection of the internal detail of the map and identification of artifacts.

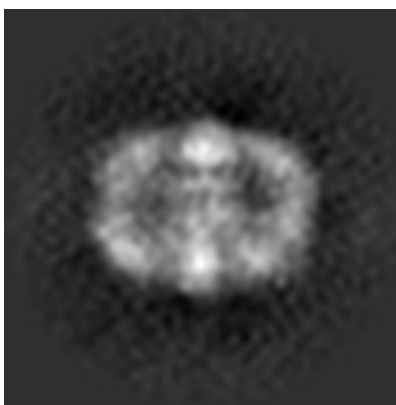
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

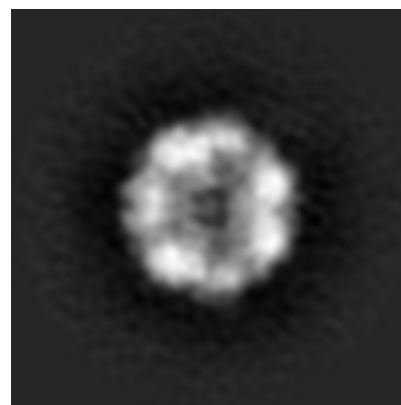
6.1.1 Primary map



X



Y

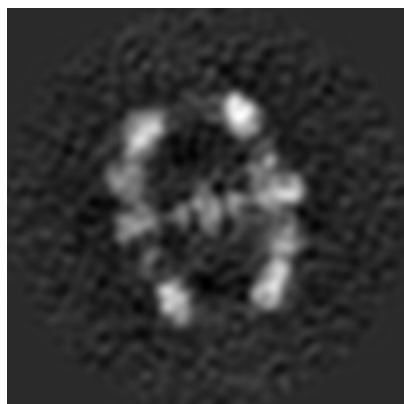


Z

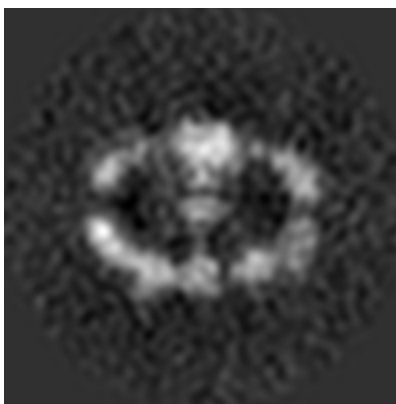
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

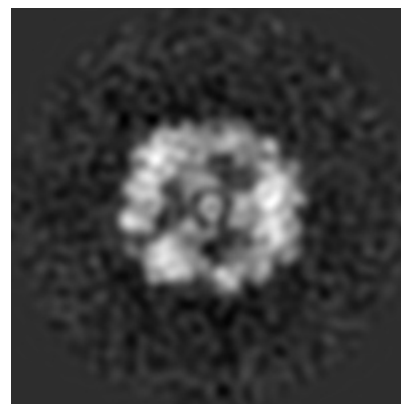
6.2.1 Primary map



X Index: 100



Y Index: 100

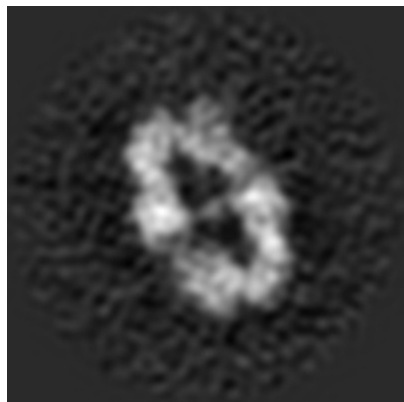


Z Index: 100

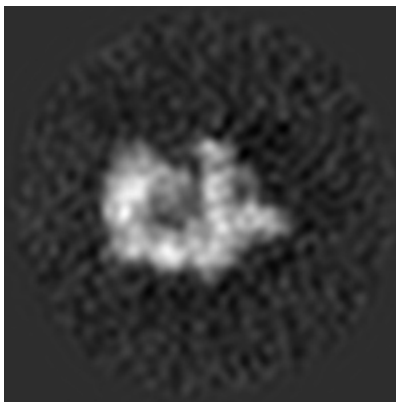
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [\(i\)](#)

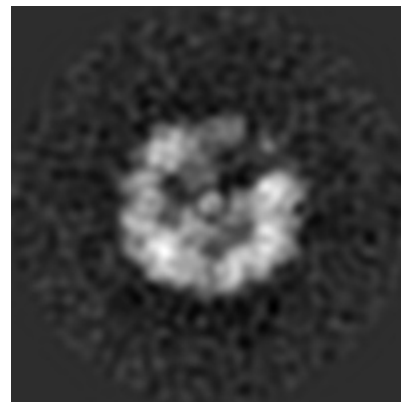
6.3.1 Primary map



X Index: 76



Y Index: 131

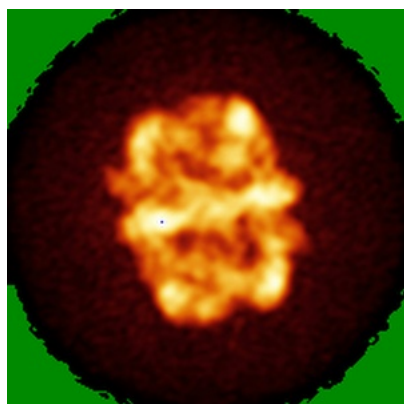


Z Index: 96

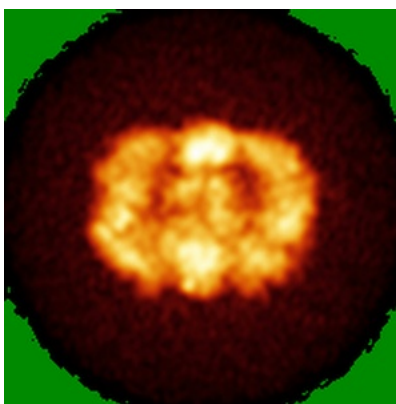
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [\(i\)](#)

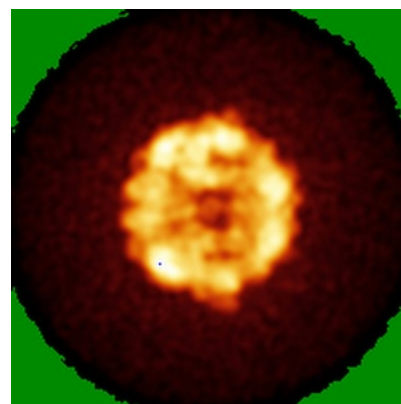
6.4.1 Primary map



X



Y

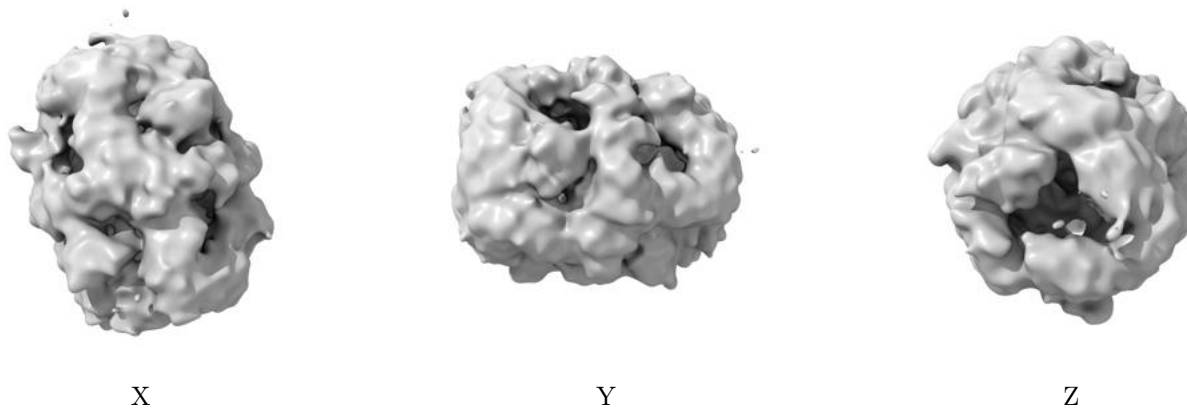


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 1.8. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

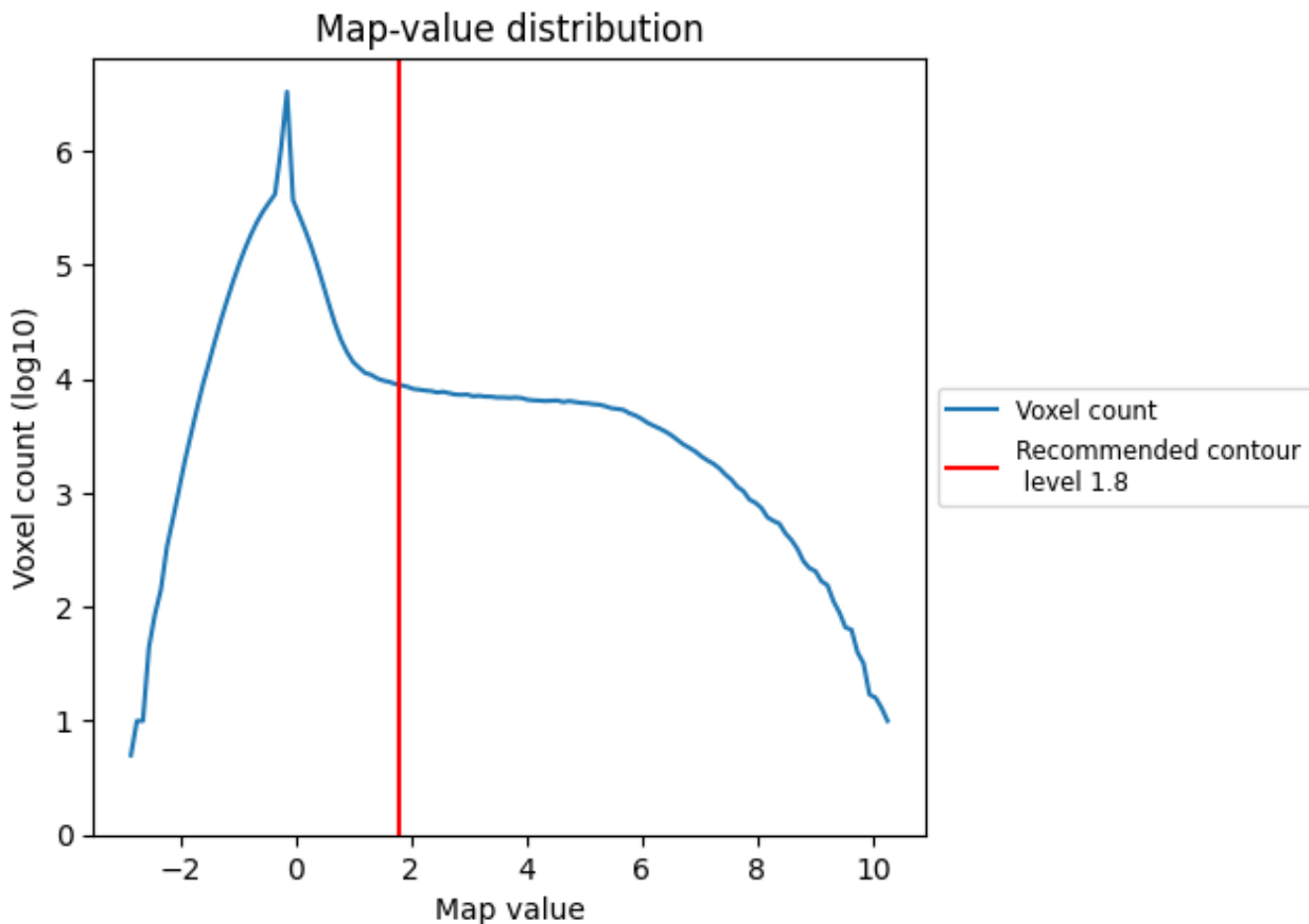
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

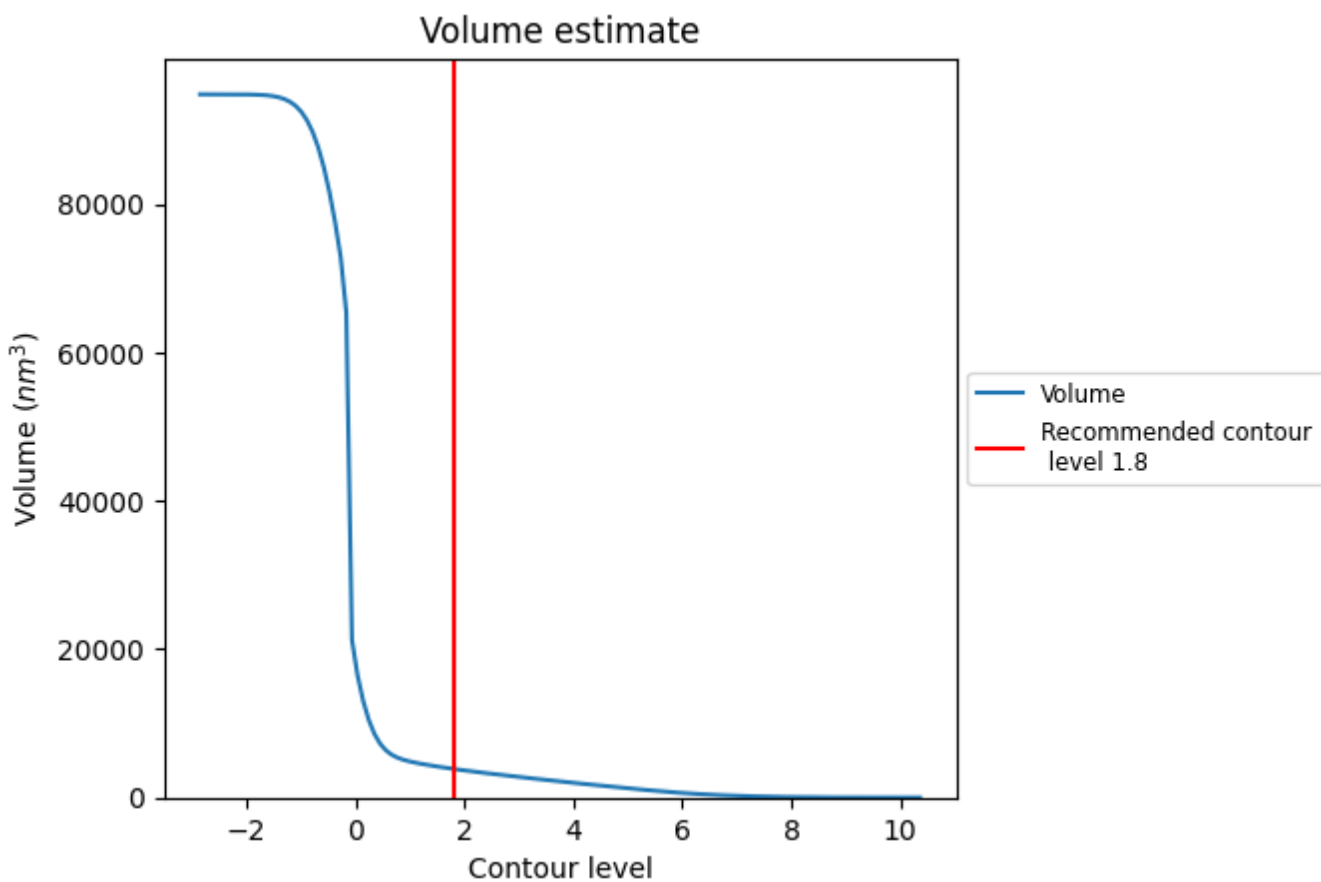
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

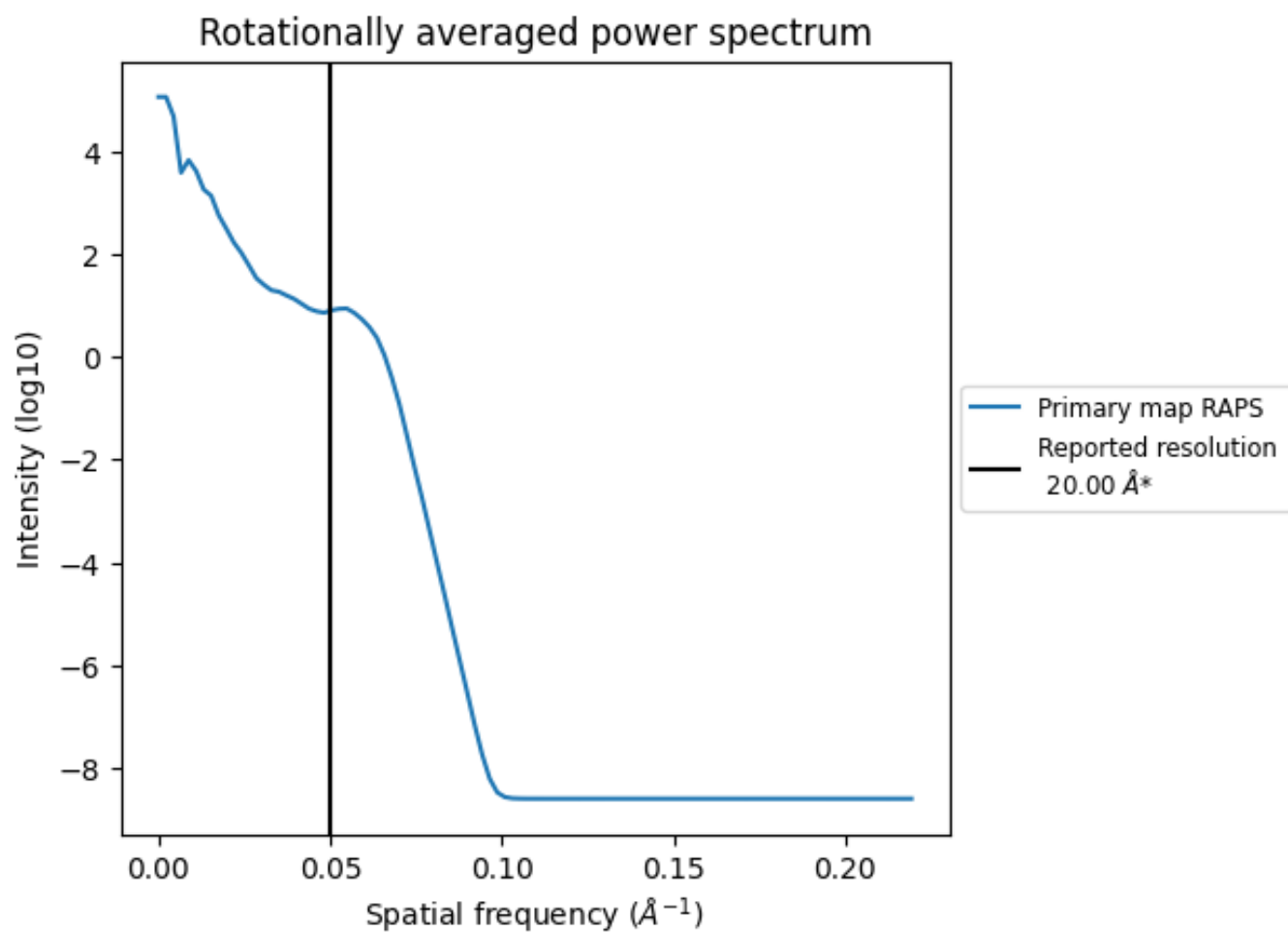
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3860 nm³; this corresponds to an approximate mass of 3487 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.050 Å⁻¹

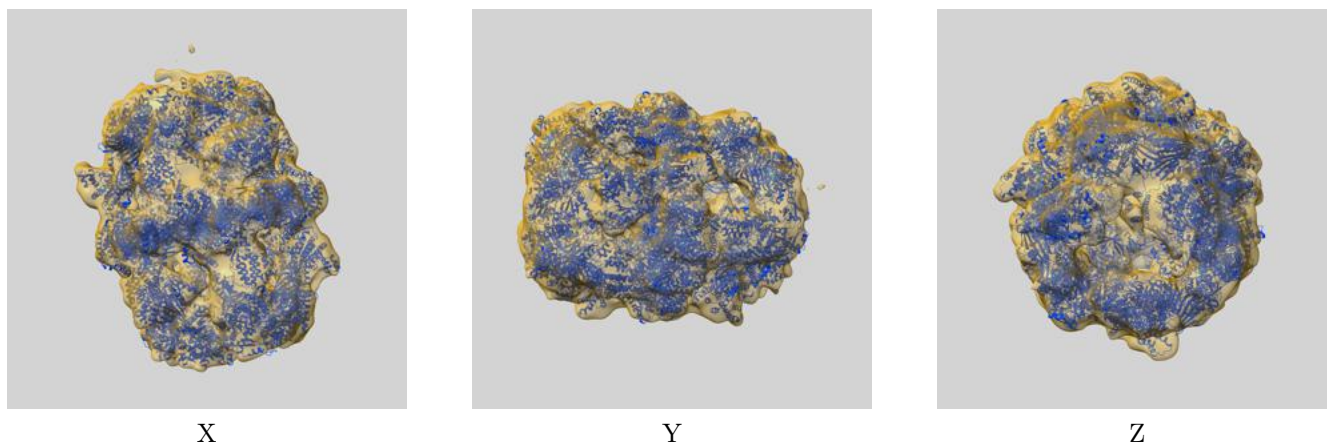
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

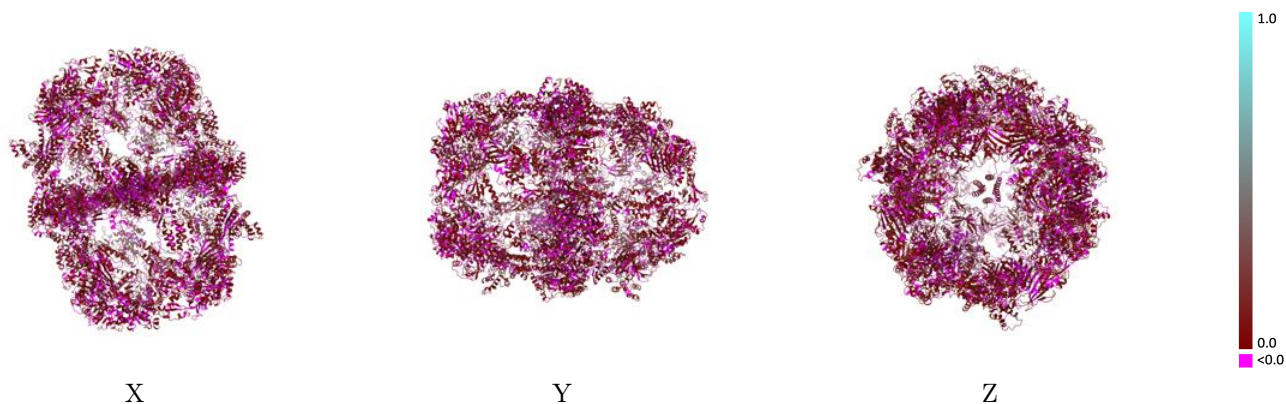
This section contains information regarding the fit between EMDB map EMD-2358 and PDB model 4V8V. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)



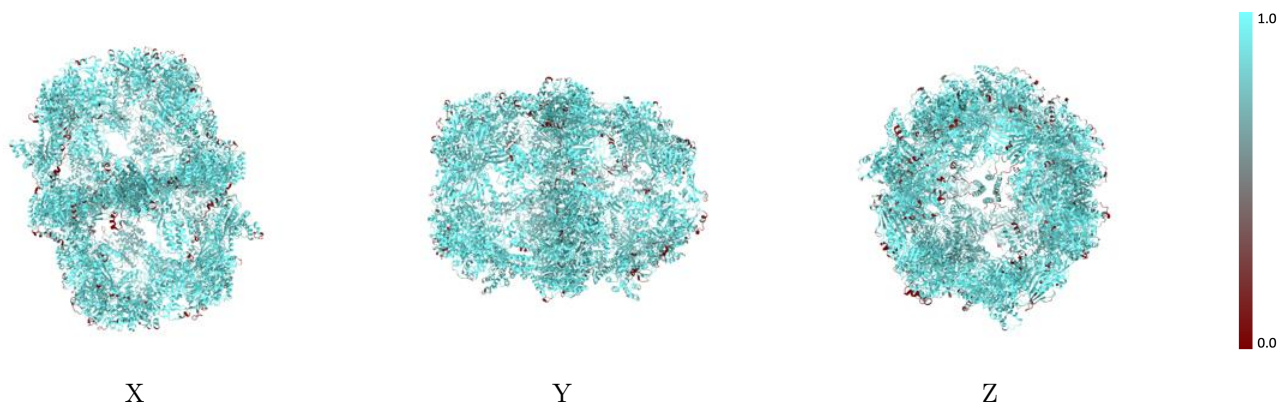
The images above show the 3D surface view of the map at the recommended contour level 1.8 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



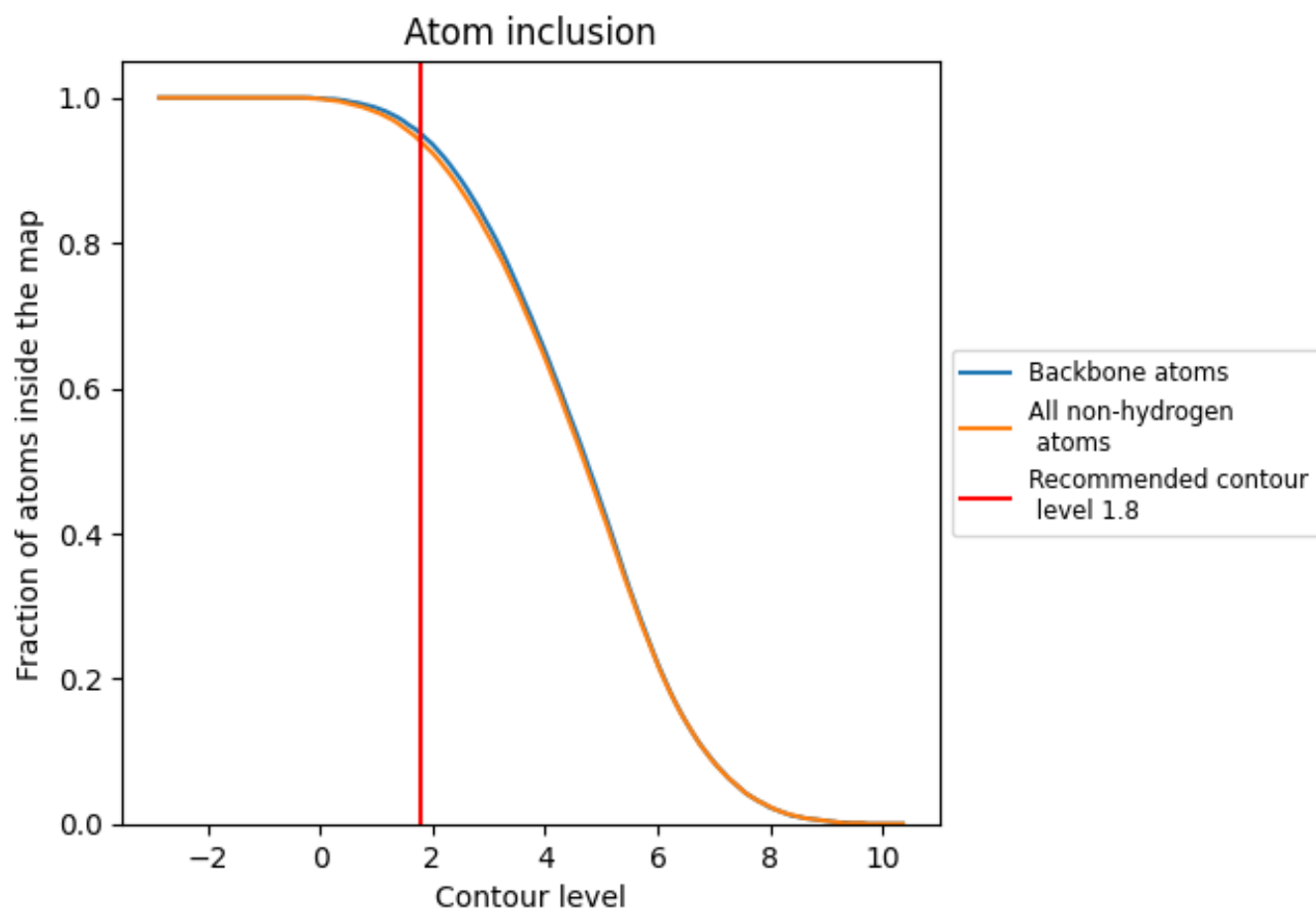
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.8).















9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (1.8) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9390	 0.0500
A	 0.9570	 0.0520
B	 0.9360	 0.0450
C	 0.9280	 0.0440
D	 0.9310	 0.0490
E	 0.9490	 0.0560
F	 0.9340	 0.0520

